

EXHIBIT G

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EXHIBITS (Continued)

INITIAL

NUMBER	DESCRIPTION	REFERENCE
Exhibit 8	University of Colorado Denver Schools of Dental Medicine, Medicine, Nursing, Public Health and Pharmacy and the Health Sciences Library Policy to Limit Conflicts of Interest Between Health Care Professionals and Industry Representatives, May 27, 2008	51
Exhibit 9	Article titled: Degradation of polypropylene in vivo: A microscopic analysis of meshes explanted from patients	74
Exhibit 10	Abstract prepared by Dr. Flynn, et al., titled: Bacteriological Analysis of Explanted Transvaginal Meshes	81
Exhibit 11	Study prepared by K. Tzartzeva, et al., titled In-Depth Nano-Investigation of Vaginal Mesh and Tape Fiber Explants in Women	84
Exhibit 12	Article published in International Urogynecology Journal by P. Moalli, et al.; titled: Tensile properties of five commonly used midurethral slings relative to the TVT	87
Exhibit 13	Article published in International Urogynecological Journal by Dr. Flynn titled: Surgical management of lower urine mesh perforation after midurethral polypropylene mesh sling: Mesh excision, urinary tract reconstruction and concomitant pubovaginal sling with autologous rectus fascia	101

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EXAMINATION OF BRIAN FLYNN, M.D.
April 19, 2016

By Mr. Zonies	6, 134
By Ms. Schmid	124

EXHIBITS

NUMBER	DESCRIPTION	REFERENCE
Exhibit 1	Amended Notice to Take Deposition of Brian Flynn, M.D.	6
Exhibit 2	Invoice for 1/1/15 through 8/31/15 indicating hours worked preparing TVT-Retropubic report by Dr. Flynn	9
Exhibit 3	Invoice for 9/1/15 through 9/30/15 indicating hours worked preparing TVT-Retropubic report by Dr. Flynn	10
Exhibit 4	Expert report prepared by Dr. Flynn entitled: Expert Overview of TVT	11
Exhibit 5	USB drive labeled "TVT"	12
Exhibit 6	E-mail chain ending 12/19/11 from Dr. Flynn to Jonathan Fernandez ETH.MESH08005683 - ETH.MESH08005684	21
Exhibit 7	E-mail string ending 3/5/4 from Brian Luscombe to Lori Campbell, et al., one page, subject: Dr. Brian Flynn	45

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EXHIBITS (Continued)

INITIAL

NUMBER	DESCRIPTION	REFERENCE
Exhibit 14	TVT-Retropubic instructions for use, dated 1/15	113
Exhibit 15	Internal Ethicon document titled: Things to consider as we assess next steps for a next generation sling	119

<p style="text-align: right;">Page 6</p> <p>1 PROCEEDINGS</p> <p>2 BRIAN J. FLYNN, M.D.,</p> <p>3 after having been duly sworn, was examined and</p> <p>4 testified as follows:</p> <p>5 EXAMINATION</p> <p>6 BY MR. ZONIES:</p> <p>7 Q. Good afternoon, Dr. Flynn. How are you</p> <p>8 today?</p> <p>9 A. Very good, Mr. Zonies.</p> <p>10 Q. As you know, Dr. Flynn, I represent</p> <p>11 plaintiffs in this litigation, and we're here today</p> <p>12 to take your deposition primarily about the</p> <p>13 TVT-Retropubic sling; is that your understanding?</p> <p>14 A. That is.</p> <p>15 MR. ZONIES: And I'll go ahead and mark as</p> <p>16 Exhibit 1 the notice of deposition as amended to</p> <p>17 show today's date.</p> <p>18 (Exhibit 1 was marked for identification.)</p> <p>19 Q. (By Mr. Zonies) Have you seen that</p> <p>20 notice of deposition before?</p> <p>21 A. I have.</p> <p>22 Q. And attached to that notice is a request</p> <p>23 for certain documents that might be in your</p> <p>24 possession, custody or control.</p> <p>25 Did you bring any documents in response to</p>	<p style="text-align: right;">Page 8</p> <p>1 the last time I submitted it.</p> <p>2 Q. Right. So the last testimony on here is</p> <p>3 the Perry case in --</p> <p>4 A. That's correct.</p> <p>5 Q. -- California, correct?</p> <p>6 A. Yes. This is the notice of deposition,</p> <p>7 what you've just shown me as Exhibit 1.</p> <p>8 Q. Okay.</p> <p>9 A. Would you like that?</p> <p>10 Q. Sure. I'll just keep a stack here.</p> <p>11 A. Then this is new. These are my invoices</p> <p>12 on TVT. So there's two invoices here.</p> <p>13 Q. Before we get to that, then, Doctor,</p> <p>14 everything you've just handed me prior to your</p> <p>15 invoices on TVT-Retropubic, we have previously</p> <p>16 marked in your earlier depositions.</p> <p>17 MR. ZONIES: And Counsel, I will just say</p> <p>18 we'll incorporate those exhibits from those</p> <p>19 depositions rather than remark them all, if that's</p> <p>20 okay?</p> <p>21 MS. SCHMID: Certainly. To the extent</p> <p>22 they've been previously marked, that's no problem.</p> <p>23 MR. ZONIES: Okay. Great.</p> <p>24 Q. (By Mr. Zonies) And you said you have</p> <p>25 something new, Doc?</p>
<p style="text-align: right;">Page 7</p> <p>1 that subpoena today?</p> <p>2 A. Yes, I have.</p> <p>3 Q. And what did you bring with you?</p> <p>4 A. Okay. So I brought some e-mails that</p> <p>5 I've had in communication with Ethicon, J&J.</p> <p>6 Q. And are these e-mails e-mails that we</p> <p>7 have previously marked in your earlier depositions?</p> <p>8 A. That's correct. There is nothing new or</p> <p>9 different from the TVT-Secur or TVT-Obturator.</p> <p>10 Q. Okay. And what else did you bring?</p> <p>11 A. This is a contract that you've seen</p> <p>12 previously.</p> <p>13 Q. Okay. Thank you. Anything else?</p> <p>14 A. This is a fee schedule.</p> <p>15 Q. Is this the same fee schedule we've</p> <p>16 previously marked as well?</p> <p>17 A. Correct.</p> <p>18 Q. All right.</p> <p>19 A. This is my CV. And that hasn't been</p> <p>20 changed.</p> <p>21 Q. So the same CV that we marked in your</p> <p>22 prior depositions?</p> <p>23 A. Yes. This is trial and deposition</p> <p>24 history up until -- not including this recent</p> <p>25 round, so that hasn't been updated or changed since</p>	<p style="text-align: right;">Page 9</p> <p>1 A. So these two binders in front of me are</p> <p>2 new. They contain articles that I've used in</p> <p>3 formulating my opinions. They contain my reliance</p> <p>4 list. They contain my TVT report, so similar to</p> <p>5 the other depositions. And I have, you know, a</p> <p>6 bibliography of my report and reliance list here</p> <p>7 that I use for convenience.</p> <p>8 Q. Okay. So could I see the invoices,</p> <p>9 please?</p> <p>10 MR. ZONIES: And we'll go ahead and mark</p> <p>11 these invoices Exhibit 2 and 3.</p> <p>12 (Exhibits 2 and 3 were marked for</p> <p>13 identification.)</p> <p>14 Q. (By Mr. Zonies) Doctor, I'm going to</p> <p>15 hand you what's been marked as Exhibit 2. Could</p> <p>16 you describe what that is, please?</p> <p>17 A. This is Exhibit 2. It says "TVT</p> <p>18 Report." It has hours worked on this report which</p> <p>19 includes 15 hours to prepare the report at \$500 an</p> <p>20 hour, and then there's a total of \$7,500.</p> <p>21 Q. And Doctor, does that represent all of</p> <p>22 the work that you did in the preparation of your</p> <p>23 TVT-Retropubic report for this case?</p> <p>24 A. No, this was just for a two-month</p> <p>25 period, July and August of 2015.</p>

<p style="text-align: right;">Page 10</p> <p>1 Q. Did you perform any work related to your</p> <p>2 TVT-Retropubic report prior to August of 2015?</p> <p>3 A. No, I did not.</p> <p>4 Q. And I'm going to hand you Exhibit 3.</p> <p>5 This appears to be an invoice subsequent to</p> <p>6 Exhibit 2 for the September time frame; is that</p> <p>7 right?</p> <p>8 A. Yes. It's for the month of September</p> <p>9 2015, 19 hours times \$500 for a total of \$9,500.</p> <p>10 Q. So between those two invoices, there are</p> <p>11 24 hours total for preparation of your report; is</p> <p>12 that correct?</p> <p>13 A. Thirty-four.</p> <p>14 Q. Thank you. Thirty-four. Told you,</p> <p>15 math -- I object when people try to do math.</p> <p>16 That's why.</p> <p>17 So between those two invoices, Doctor, are</p> <p>18 34 total hours for the preparation of your report</p> <p>19 in this case, correct?</p> <p>20 A. That's correct.</p> <p>21 Q. Other than those 34 hours, is there any</p> <p>22 other time that you spent on preparation of your</p> <p>23 report, your TVT-R report?</p> <p>24 A. Of the report, no.</p> <p>25 Q. And then your report was -- let me go</p>	<p style="text-align: right;">Page 12</p> <p>1 some PowerPoint presentations on TVT that have been</p> <p>2 shared with me or that I have given on behalf of</p> <p>3 Ethicon.</p> <p>4 Q. Okay. Why don't we go ahead and mark</p> <p>5 that, then, Doctor, as Exhibit 5.</p> <p>6 (Exhibit 5 was marked for identification.)</p> <p>7 Q. (By Mr. Zonies) Anything else that you</p> <p>8 brought with you today, Doctor?</p> <p>9 A. That's all I have.</p> <p>10 Q. And in the binder that you have in front</p> <p>11 of you, Doctor, you said that there are -- how</p> <p>12 would you describe what's in the binder? Your</p> <p>13 report, and what else?</p> <p>14 A. Okay. So starting at the beginning is</p> <p>15 the report, then there's a reliance list. It's</p> <p>16 labeled "MDL Wave 1," and that was printed</p> <p>17 March 2nd, 2016. And there's a list of expert</p> <p>18 reports at the end of that. Then there is a total</p> <p>19 of 74 tabs that have articles that I referenced in</p> <p>20 my report, so that's these two binders.</p> <p>21 In addition to that, there's two</p> <p>22 bibliographies, one for the TVT general report</p> <p>23 that's listed in numeric order, and then the same</p> <p>24 list is there in alphabetical order.</p> <p>25 Q. Anywhere in that binder, Doctor, are</p>
<p style="text-align: right;">Page 11</p> <p>1 ahead and mark your report.</p> <p>2 (Exhibit 4 was marked for identification.)</p> <p>3 Q. (By Mr. Zonies) I'm handing you what's</p> <p>4 being marked as Exhibit 4. Can you confirm for me,</p> <p>5 please, Doctor, that that's the report that you</p> <p>6 issued in this case concerning the TVT-Retropubic</p> <p>7 device?</p> <p>8 A. This looks like a 46-page report, and it</p> <p>9 was signed by me on February 26. And it looks to</p> <p>10 be the same report. Without going through every</p> <p>11 page, it would be hard to say, but I got to believe</p> <p>12 it's the same report here.</p> <p>13 Q. Okay. And if you see something that's</p> <p>14 different, let me know. But it's my understanding</p> <p>15 that this is what was issued as your report in</p> <p>16 February of 2016, okay?</p> <p>17 A. Okay.</p> <p>18 Q. The last time --</p> <p>19 A. I do have one other thing to submit.</p> <p>20 Q. Oh, sure.</p> <p>21 A. Is a USB thumb drive. And this is</p> <p>22 labeled "TVT." What's on here would be things that</p> <p>23 aren't in these binders. So I try to do the best I</p> <p>24 can to avoid duplication. So there's some Ethicon</p> <p>25 documents on this USB, including IFUs. There are</p>	<p style="text-align: right;">Page 13</p> <p>1 there materials that are not on your reliance list?</p> <p>2 A. I don't believe so.</p> <p>3 Q. So each of those tabs represents the</p> <p>4 footnote in your report and the materials that you</p> <p>5 referenced in that footnote in your report?</p> <p>6 A. That's correct.</p> <p>7 Q. Is it complete? In other words, does</p> <p>8 that have all of the material that would be</p> <p>9 referenced in a footnote in your report?</p> <p>10 A. Yes. It has the first author's name.</p> <p>11 It has the title. It has the year and the page</p> <p>12 number.</p> <p>13 Q. And for each of the tabs, if I asked you</p> <p>14 to turn to -- if tab 10, for example, or footnote</p> <p>15 10 had three references, and you turned to footnote</p> <p>16 10, would all three of those references necessarily</p> <p>17 be in those binders?</p> <p>18 A. Well, each tab only has one reference,</p> <p>19 so we didn't put multiple references under one tab.</p> <p>20 Q. Gotcha. So the tabs are just the items</p> <p>21 that you referenced in your report, but not</p> <p>22 multiple references for a single footnote, for</p> <p>23 example?</p> <p>24 A. So if there was a single footnote, there</p> <p>25 may be a blank tab. So for example, 17 and 21 is</p>

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<p>1 the Ulmsteen reference, so it would only be in here</p> <p>2 once. It would be here under 17, but then when I</p> <p>3 hit the 21 tab, you know, that's blank.</p> <p>4 Q. So for example, what is under tab 23?</p> <p>5 Or what would you have -- for footnote 23, how</p> <p>6 would you find those materials in those binders?</p> <p>7 A. I see. So if I went to my report and my</p> <p>8 report says footnote 23, that's an Ethicon</p> <p>9 document, which is Bates number ETH-MESH9275943-45,</p> <p>10 then I go to my tab number 23, it has the same</p> <p>11 Bates number. And, you know, the article or the</p> <p>12 e-mail or the internal document, however you want</p> <p>13 to describe it, is there.</p> <p>14 Q. And what do you have -- you see footnote</p> <p>15 23 has a semicolon and then says "Axel Arnault</p> <p>16 deposition testimony"?</p> <p>17 A. So that's what it says here under my</p> <p>18 reference. So in the body of the report, it says</p> <p>19 "TVT offered laser cut or mechanical cut, reference</p> <p>20 Number 23." You look down on the bottom of page</p> <p>21 13, "Axel Arnault deposition," so when I go to 23,</p> <p>22 there's an e-mail there with respect to some</p> <p>23 internal communication.</p> <p>24 Q. But there's nothing there that is Axel</p> <p>25 Arnault deposition testimony, correct?</p>	<p>1 cite to it? I don't know how it got in there if</p> <p>2 you've never read it.</p> <p>3 A. I may have had some confusion when I was</p> <p>4 preparing the report, but as I mentioned earlier in</p> <p>5 the deposition, I have not read the report.</p> <p>6 Q. And it's not on your reliance materials</p> <p>7 either, is it?</p> <p>8 A. Well, the reliance list and the report</p> <p>9 may have some overlap, but I didn't take all the</p> <p>10 articles on the report and then duplicate them in</p> <p>11 the reliance list. The reliance list has articles</p> <p>12 that maybe weren't cited in the report.</p> <p>13 Q. Now, according to your invoices, Doctor,</p> <p>14 you were finished with your -- this report,</p> <p>15 Exhibit 4, by the end of September of 2015,</p> <p>16 correct?</p> <p>17 A. Correct.</p> <p>18 Q. Did you make any modifications to that</p> <p>19 report between September of 2015 and February of</p> <p>20 2016 when it was issued?</p> <p>21 A. No substantive changes. So there may</p> <p>22 have been some grammatical errors or typographical</p> <p>23 errors that may have been changed, some formatting,</p> <p>24 but nothing regarding to the content.</p> <p>25 Q. Subsequent to September of 2015 and</p>
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<p>1 A. That's correct.</p> <p>2 Q. And, in fact, you've never read Axel</p> <p>3 Arnault's deposition, have you?</p> <p>4 A. I've never read it.</p> <p>5 Q. So that citation in footnote 23 in your</p> <p>6 report where you're citing to Axel Arnault's</p> <p>7 deposition testimony, you've never actually red</p> <p>8 Axel Arnault's deposition testimony, correct?</p> <p>9 A. That's correct.</p> <p>10 Q. And so that's incorrect. You would</p> <p>11 change that in your report now?</p> <p>12 A. Yeah, that could have been done better.</p> <p>13 Q. Well, it could have been done</p> <p>14 truthfully, right? You've never read it.</p> <p>15 MS. SCHMID: Objection; form, argumentative.</p> <p>16 A. I've never read it.</p> <p>17 Q. (By Mr. Zonies) Right. So in reality,</p> <p>18 that citation's incorrect, and you've never read</p> <p>19 that testimony, so that should be stricken from</p> <p>20 your report, correct?</p> <p>21 MS. SCHMID: Objection; form, argumentative.</p> <p>22 A. I've never read the report. I don't</p> <p>23 know the realities of whether it should be stricken</p> <p>24 or not stricken.</p> <p>25 Q. (By Mr. Zonies) Well, did you actually</p>	<p>1 before issuance of your report, did you come into</p> <p>2 possession of any new materials that would have</p> <p>3 impacted your report in any way, shape or form?</p> <p>4 A. I don't believe so.</p> <p>5 Q. You gave us a thumb drive which has been</p> <p>6 marked as Exhibit 5. On that thumb drive, you say</p> <p>7 there are additional Ethicon internal documents and</p> <p>8 some PowerPoints provided to you and copies of</p> <p>9 PowerPoints of presentations that you've given as</p> <p>10 well; is that correct?</p> <p>11 A. Correct.</p> <p>12 Q. Did you receive those materials</p> <p>13 subsequent to completing your report?</p> <p>14 A. I don't believe so. I'd have to go back</p> <p>15 and take a look at that, but certainly, everything</p> <p>16 on there I've seen many times. The PowerPoints are</p> <p>17 quite old PowerPoints. And the IFU, certainly I've</p> <p>18 seen the IFU. You know, for more than ten years,</p> <p>19 I've read that, you know, as part of my practice,</p> <p>20 similar to the PowerPoints. Those are ones that I</p> <p>21 have given personally, many of them. So I'm very</p> <p>22 familiar with them. When I put them on the USB, or</p> <p>23 maybe I received a copy for convenience more</p> <p>24 recently, but these are things that I've received</p> <p>25 before.</p>

<p style="text-align: right;">Page 18</p> <p>1 Q. Okay. The presentations that you've</p> <p>2 given that are on the thumb drive, do some of those</p> <p>3 presentations have to do with the TVT-Retropubic?</p> <p>4 A. Yeah, I only put ones that were</p> <p>5 TVT-Retropubic. And the other depositions I try to</p> <p>6 separate the PowerPoints based on the product.</p> <p>7 Q. You've had the opportunity to -- you</p> <p>8 were on the Ethicon speaker's bureau; is that</p> <p>9 right?</p> <p>10 A. I was part of the speaking bureau,</p> <p>11 however you want to describe that. I was a</p> <p>12 consultant for Ethicon from 2004 to around 2011.</p> <p>13 Q. And during that period of time, from</p> <p>14 2004 to 2011, as a member of the speaker's bureau</p> <p>15 for Ethicon, you had the opportunity to give a</p> <p>16 number of talks about Ethicon's devices, correct?</p> <p>17 A. Correct.</p> <p>18 Q. And in giving those talks, sometimes you</p> <p>19 were provided the slide decks or the materials for</p> <p>20 the talk by Ethicon, correct?</p> <p>21 A. Correct.</p> <p>22 Q. And when Ethicon gave you those</p> <p>23 materials, generally, you were not permitted to</p> <p>24 alter those materials in any way, correct?</p> <p>25 A. Correct.</p>	<p style="text-align: right;">Page 20</p> <p>1 presentations, but now they're included in a</p> <p>2 TVT-Exact or TVT-Abbrevio, especially with regards</p> <p>3 to the mesh and the materials science. If it was</p> <p>4 the same mesh, then a lot of the slides were very</p> <p>5 similar.</p> <p>6 Q. So certainly, in the time frame -- well,</p> <p>7 strike that.</p> <p>8 When did you first start to use TVT-Exact?</p> <p>9 A. TVT-Exact I started to use probably when</p> <p>10 it was launched, which I believe was around 2010 or</p> <p>11 2011. I was part of the launch. I did go to</p> <p>12 Baltimore for the launch. There was a cadaver lab</p> <p>13 there, and then I did the first TVT-Exact case in</p> <p>14 Colorado.</p> <p>15 Q. So in the 2010-2011 time frame, you had</p> <p>16 the opportunity to -- as a member of the Ethicon</p> <p>17 speaker's bureau, to give talks to physicians about</p> <p>18 the TVT-Exact device, and those talks would have</p> <p>19 included information about the TVT-Retropubic as</p> <p>20 well, correct?</p> <p>21 A. That's correct.</p> <p>22 Q. And you would have given those talks</p> <p>23 using Ethicon's preapproved slide deck; is that</p> <p>24 correct?</p> <p>25 A. At Ethicon-approved events, yes.</p>
<p style="text-align: right;">Page 19</p> <p>1 Q. And if you did make an alteration, it</p> <p>2 had to be approved by Ethicon, correct?</p> <p>3 A. If it was going to be used at an Ethicon</p> <p>4 event.</p> <p>5 Q. And do you believe that you gave any of</p> <p>6 those talks in 2011 using Ethicon's slide decks?</p> <p>7 A. Not on that USB. That USB pertains to</p> <p>8 TVT-Retropubic. In 2011, any talks I would have</p> <p>9 given or projects I was involved in pertained to</p> <p>10 TVT-Exact and TVT-Abbrevio.</p> <p>11 Q. When do you think, without -- I can open</p> <p>12 up the thumb drive. I'll do that on a break.</p> <p>13 But do you have a sense of when the last</p> <p>14 time it was that you gave a talk using an Ethicon</p> <p>15 slide deck related to the TVT-Retropubic device?</p> <p>16 A. Specific to the device, it would have</p> <p>17 been much earlier than that, probably around 2004</p> <p>18 or 2005, but realizing as the new products came</p> <p>19 out, the TVT was always the predicate device, so</p> <p>20 many of the later talks, say, were on TVT-Exact,</p> <p>21 but there was a lot of slides that overlapped,</p> <p>22 slides that I had seen before. So we can answer</p> <p>23 that question a couple different ways.</p> <p>24 In a 2011 presentation, there may have been</p> <p>25 a few slides that were used in earlier TVT-specific</p>	<p style="text-align: right;">Page 21</p> <p>1 Q. And in addition to being on the</p> <p>2 speaker's bureau, you are acting today in a</p> <p>3 capacity as an expert witness for Ethicon; is that</p> <p>4 correct?</p> <p>5 A. That's correct.</p> <p>6 Q. And you have been acting as an expert</p> <p>7 witness for Ethicon in either a disclosed or a</p> <p>8 consulting capacity since when?</p> <p>9 A. Probably sometime in around 2012.</p> <p>10 Q. So since -- Doctor, I'll go ahead and</p> <p>11 hand you what I'm marking as Exhibit 6.</p> <p>12 (Exhibit 6 was marked for identification.)</p> <p>13 Q. (By Mr. Zonies) Doctor, Exhibit 6 is an</p> <p>14 e-mail from Brian Flynn to Jonathan Fernandez,</p> <p>15 dated December 19th, 2011; is that right?</p> <p>16 A. Yes.</p> <p>17 Q. This is an e-mail that you sent to an</p> <p>18 Ethicon employee in December of 2011, correct?</p> <p>19 A. That's correct.</p> <p>20 Q. Who is Jonathan Fernandez?</p> <p>21 A. He was the professional education</p> <p>22 manager in the western United States. And he also</p> <p>23 was a former representative for Ethicon locally.</p> <p>24 So he -- I knew him in a number of different</p> <p>25 capacities.</p>

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<p>1 Q. You knew Mr. Fernandez first as your</p> <p>2 sales rep. He would come to your offices as a</p> <p>3 sales representative, correct?</p> <p>4 A. That's correct.</p> <p>5 Q. And then he moved his way into</p> <p>6 professional education at Ethicon, correct?</p> <p>7 A. That's correct.</p> <p>8 Q. And you continued to have a relationship</p> <p>9 with him in that capacity because he would work</p> <p>10 with you on professional education events, correct?</p> <p>11 A. Correct.</p> <p>12 Q. And in this e-mail to Mr. Fernandez, you</p> <p>13 write, "As of December 2011, all is well with me,</p> <p>14 although my practice is really changing from mesh</p> <p>15 kits to Biologicals, ASC and spending time trying</p> <p>16 to help defend J&J in a class action lawsuit versus</p> <p>17 Prolift PS." Did I read that correctly?</p> <p>18 A. Yes.</p> <p>19 Q. And is that what you were spending time</p> <p>20 doing in December of 2011?</p> <p>21 A. Yes. I was getting -- at that point, I</p> <p>22 was having conversations with them in regards to</p> <p>23 these items.</p> <p>24 Q. And so you testified that you believe</p> <p>25 you were first consulting as an expert sometime in</p>	<p>1 Q. And then in 2011, you started working</p> <p>2 with Ethicon as a consultant on the litigations,</p> <p>3 correct?</p> <p>4 A. Correct.</p> <p>5 Q. And you continue to do that to this day,</p> <p>6 correct?</p> <p>7 A. Correct.</p> <p>8 Q. So you've effectively been a consultant</p> <p>9 working with Ethicon from 2004 all the way through</p> <p>10 today; is that fair?</p> <p>11 MS. SCHMID: Objection; vague, compound.</p> <p>12 Go ahead.</p> <p>13 A. Like I mentioned, I think 2004 to 2011,</p> <p>14 my consulting was directly with Ethicon as a</p> <p>15 speaker's bureau person and other capacities, and</p> <p>16 after '11 it was more surrounding the litigation.</p> <p>17 Q. (By Mr. Zonies) In the next sentence</p> <p>18 you say, "Ultimately I suspect J&J will pay out</p> <p>19 millions." Is that what you wrote?</p> <p>20 A. Yes, that's what I wrote.</p> <p>21 Q. Was that your opinion at the time in</p> <p>22 2011?</p> <p>23 A. It may have been.</p> <p>24 Q. Do you have a sense of why that was your</p> <p>25 opinion?</p>
Page 23	Page 25
<p>1 2012. This seems fairly consistent with that, is</p> <p>2 that right, that in the end of 2011, beginning of</p> <p>3 2012, you were consulting for Ethicon can as an</p> <p>4 expert?</p> <p>5 A. That's correct.</p> <p>6 Q. Did you think you started consulting</p> <p>7 with Ethicon as an expert shortly after or</p> <p>8 overlapping with when the last time that you acted</p> <p>9 as a consultant or a speaker on the speaker's</p> <p>10 bureau?</p> <p>11 MS. SCHMID: Objection; form, vague.</p> <p>12 A. I'm not certain, but pretty close in and</p> <p>13 around those dates.</p> <p>14 Q. (By Mr. Zonies) You have testified</p> <p>15 previously that you were a consultant for Ethicon</p> <p>16 pretty much from 2004 through 2012, I think you've</p> <p>17 said before -- well, strike that.</p> <p>18 So would it be fair to say that you first</p> <p>19 started consulting with Ethicon in or around 2004?</p> <p>20 A. Yes.</p> <p>21 Q. And that you consulted or worked on the</p> <p>22 speaker's bureau and also on the launch of a number</p> <p>23 of devices up and through sometime in 2011,</p> <p>24 correct?</p> <p>25 A. Correct.</p>	<p>1 A. When I was in New York City, I did a</p> <p>2 course there at NY University. I was asked to give</p> <p>3 a number of talks. And it just seemed like the</p> <p>4 medical-legal climate that was in New York was</p> <p>5 going to possibly spread to other parts of the</p> <p>6 country. And so this was after the FDA Public</p> <p>7 Health Notification, after the second one, and so</p> <p>8 certainly, there was a lot of talk that I would</p> <p>9 hear at meetings and other places about lawsuits</p> <p>10 and the potential for class-action lawsuits.</p> <p>11 Q. Can you help us out and get them to do</p> <p>12 that, by the way?</p> <p>13 A. Do what?</p> <p>14 Q. Pay out millions.</p> <p>15 A. That's not my role here.</p> <p>16 MS. SCHMID: Objection; form.</p> <p>17 Go ahead. Next question.</p> <p>18 MR. ZONIES: I thought I'd try, though.</p> <p>19 Q. (By Mr. Zonies) When the Exact</p> <p>20 launched, the Exact allows a retropubic approach,</p> <p>21 correct?</p> <p>22 A. Correct.</p> <p>23 Q. Did you favor the Exact over the</p> <p>24 TVT-Retropubic?</p> <p>25 A. Yes.</p>

<p style="text-align: right;">Page 26</p> <p>1 Q. Why?</p> <p>2 A. Mostly for ease of use. It allowed only</p> <p>3 one cystoscopy as opposed to two, so because of the</p> <p>4 new design with the plastic cannula, you were able</p> <p>5 to pass the trocar on both sides and then perform a</p> <p>6 single cystoscopy, where with the retropubic kit,</p> <p>7 you weren't able to do that because there was no</p> <p>8 cannula. There was just a metal trocar, and then</p> <p>9 there was a permanent device called the TVT</p> <p>10 Introducer that would get attached to the</p> <p>11 cannula -- to the trocar, and that could only be</p> <p>12 used on one side at a time.</p> <p>13 So it was mostly because of that reason that</p> <p>14 I was able to do the case with performing one</p> <p>15 cystoscopy instead of two. Also, the TVT</p> <p>16 Introducer that was used to hold the trocar on the</p> <p>17 original kit, you know, sometimes was hard to</p> <p>18 locate. It wasn't something that J&J offered. It</p> <p>19 was a permanent tool that the hospitals would have,</p> <p>20 and operating out of a number of different ORs, I</p> <p>21 always felt more confident when I had everything in</p> <p>22 the kit compared to having to rely on some reusable</p> <p>23 instruments. So most surgeons for that reason</p> <p>24 preferred the TVT-Exact product.</p> <p>25 Q. Did you find that because you only had</p>	<p style="text-align: right;">Page 28</p> <p>1 years ago?</p> <p>2 A. Sometime around 2010 or 2011 I think is</p> <p>3 when TVT-Exact came out, so whenever that date was.</p> <p>4 Q. Is cystoscopy required when using the</p> <p>5 TVT-Retropubic?</p> <p>6 A. It is.</p> <p>7 Q. Are two cystoscopies required, in your</p> <p>8 opinion, when using the TVT-Retropubic device?</p> <p>9 A. As many as you need to. Any time you</p> <p>10 have to repass the trocar or pass the trocar for</p> <p>11 the first time, what it recommends in the IFU is</p> <p>12 that a cystoscopy be performed.</p> <p>13 Q. But in your opinion, it's not just a</p> <p>14 recommendation, it's necessary. It should be done,</p> <p>15 correct?</p> <p>16 A. In my opinion, yes. And that's what I</p> <p>17 teach to my residents. That's what I do in my own</p> <p>18 practice.</p> <p>19 Q. That's what should be in the IFU, right?</p> <p>20 It should say "cystoscopy is required"?</p> <p>21 MS. SCHMID: Objection; form, argumentative,</p> <p>22 scope.</p> <p>23 Go ahead.</p> <p>24 A. I think that that is just part of basic</p> <p>25 fundamental surgical knowledge. With any</p>
<p style="text-align: right;">Page 27</p> <p>1 to do one cystoscopy that your surgeries were</p> <p>2 shorter?</p> <p>3 A. It would save approximately five to ten</p> <p>4 minutes.</p> <p>5 Q. And that's a benefit to the patients,</p> <p>6 correct?</p> <p>7 A. Yes.</p> <p>8 Q. Did you have concerns when you had to</p> <p>9 use a reusable introducer that there were would be</p> <p>10 sterility issues?</p> <p>11 A. No. No, it's the same as what you would</p> <p>12 experience with any reusable instrument or scissors</p> <p>13 or forceps, hemostats. We reuse overwhelmingly the</p> <p>14 majority of instruments we do in an operation.</p> <p>15 Q. When you switched over to the TVT --</p> <p>16 well, I guess my question is, did you -- when the</p> <p>17 Exact came out, did you switch over almost</p> <p>18 exclusively to the Exact as compared to the TVT-R?</p> <p>19 A. For my retropubic cases, yes.</p> <p>20 Q. So probably the last time you put in a</p> <p>21 TVT-R would be sometime in 2009 or 2010, whenever</p> <p>22 the Exact came to market?</p> <p>23 A. Correct.</p> <p>24 Q. So the last time that you've actually</p> <p>25 used the TVT-Retropubic device is approximately six</p>	<p style="text-align: right;">Page 29</p> <p>1 antiincontinence procedure, once I'm done placing</p> <p>2 my sutures or my trocars, I perform cystoscopy.</p> <p>3 That's something that was taught to me as a</p> <p>4 resident, as a fellow, something I teach my</p> <p>5 students and residents.</p> <p>6 Q. (By Mr. Zonies) And that's what should</p> <p>7 be in the IFU, that cystoscopy is required,</p> <p>8 correct?</p> <p>9 MS. SCHMID: Objection; form, argumentative,</p> <p>10 scope.</p> <p>11 A. I believe what the IFU recommends in</p> <p>12 regards to cystoscopy is adequate.</p> <p>13 Q. (By Mr. Zonies) What does it recommend?</p> <p>14 A. It recommends on the retropubic</p> <p>15 procedures that cystoscopy performed. On the</p> <p>16 obturator procedures, I believe that is listed as</p> <p>17 the discretion of the physician, so it's a stronger</p> <p>18 statement.</p> <p>19 Q. And so my question is simply, Doctor,</p> <p>20 the IFU -- it sounds like you agree that the IFU</p> <p>21 should say, for TVT-Retropubic, cystoscopy is</p> <p>22 recommended or required, correct?</p> <p>23 MS. SCHMID: Objection; form, argumentative,</p> <p>24 misstates prior testimony.</p> <p>25 Go ahead.</p>

<p style="text-align: right;">Page 30</p> <p>1 A. Yeah, I believe it misstates what I</p> <p>2 said. I said that that's part of the basic</p> <p>3 fundamental knowledge. I don't think you need the</p> <p>4 IFU to tell you that. After doing an</p> <p>5 antiincontinence procedure, I usually perform</p> <p>6 cystoscopy. Any time you're passing instruments</p> <p>7 next to the bladder, that's common knowledge.</p> <p>8 That's something that we do every day in our</p> <p>9 practice.</p> <p>10 Q. (By Mr. Zonies) And you think that</p> <p>11 certainly Ethicon would understand that's common</p> <p>12 knowledge when they're selling a TVT-R, right?</p> <p>13 That cystoscopy should be done after the procedure,</p> <p>14 correct?</p> <p>15 MS. SCHMID: Objection; form, foundation.</p> <p>16 A. No, that's not correct. I think Ethicon</p> <p>17 has to assume that physicians are using reasonable</p> <p>18 judgment and care when using their products, but</p> <p>19 they're not going to tell the physician what</p> <p>20 antibiotic to use, how long to keep the Foley in,</p> <p>21 what kind of anesthesia they should use, what kind</p> <p>22 of dressing they should put on. So there's a lot</p> <p>23 of things in that procedure that Ethicon doesn't</p> <p>24 make recommendations on because that's part of our</p> <p>25 basic fundamental knowledge.</p>	<p style="text-align: right;">Page 32</p> <p>1 antiincontinence surgeries know how to perform</p> <p>2 cystoscopy, so I'd be surprised that anybody would</p> <p>3 be doing antiincontinence surgery and do not know</p> <p>4 how to perform cystoscopy.</p> <p>5 Q. (By Mr. Zonies) And if Ethicon knew</p> <p>6 that there were physicians who couldn't perform</p> <p>7 cystoscopy, and yet they sold a device to those</p> <p>8 physicians, is that okay, in your mind?</p> <p>9 MS. SCHMID: Objection; form, vague.</p> <p>10 A. I don't believe Ethicon sells the</p> <p>11 product to the physician. They sell it to the</p> <p>12 hospital, and then the hospital credentials the</p> <p>13 physician. The physician has to make a decision</p> <p>14 based on the privileges they request whether or not</p> <p>15 they're competent to do the procedure. So that's</p> <p>16 not really something that Ethicon is directly</p> <p>17 involved in. They sell it to the hospital, the</p> <p>18 hospital decides who's going to use it based on the</p> <p>19 credentials they provide.</p> <p>20 Q. (By Mr. Zonies) Do you believe that</p> <p>21 Ethicon has any obligation whatsoever to include</p> <p>22 cystoscopy in the IFU?</p> <p>23 MS. SCHMID: Objection; form, scope.</p> <p>24 A. As I stated earlier, I don't believe</p> <p>25 that that's Ethicon's position.</p>
<p style="text-align: right;">Page 31</p> <p>1 Q. (By Mr. Zonies) So Doctor, if Ethicon</p> <p>2 knew that some physicians that it was selling the</p> <p>3 TVT-R to, if Ethicon knew that those physicians</p> <p>4 couldn't actually do a cystoscopy, or suspected it,</p> <p>5 and intentionally wrote the IFU such that</p> <p>6 cystoscopy was not required so that they could sell</p> <p>7 to those physicians, would that be okay in your</p> <p>8 mind?</p> <p>9 MS. SCHMID: Objection; form, improper</p> <p>10 hypothetical, compound.</p> <p>11 A. I can't answer that question the way</p> <p>12 that's stated.</p> <p>13 Q. (By Mr. Zonies) Okay. Were you aware</p> <p>14 that Ethicon knew that some of the physicians to</p> <p>15 whom it was selling the device couldn't actually</p> <p>16 perform cystoscopy?</p> <p>17 MS. SCHMID: Objection; foundation.</p> <p>18 A. I'm not aware of that.</p> <p>19 Q. (By Mr. Zonies) You've never seen any</p> <p>20 internal Ethicon documents discussing the concern</p> <p>21 that gynecologists don't know how to do</p> <p>22 cystoscopies?</p> <p>23 MS. SCHMID: Same objection.</p> <p>24 A. I'm not aware of that document. All of</p> <p>25 the gynecologists that I work with that perform</p>	<p style="text-align: right;">Page 33</p> <p>1 Q. (By Mr. Zonies) You don't think they</p> <p>2 have any responsibility to put that in?</p> <p>3 A. I don't believe they have that</p> <p>4 responsibility.</p> <p>5 Q. And as we discussed before, you don't</p> <p>6 know the FDA regulations that govern what should be</p> <p>7 in an IFU, correct?</p> <p>8 MS. SCHMID: Objection; form, scope.</p> <p>9 Go ahead.</p> <p>10 A. In earlier depositions, and as I'll</p> <p>11 state now, I'm familiar with FDA requirements. I</p> <p>12 am by no means an expert in FDA regulatory, but I</p> <p>13 have reviewed documents, as I've cited earlier,</p> <p>14 about what is reasonable and what some expectations</p> <p>15 the FDA has when companies are creating IFUs, and</p> <p>16 then, you know, what the industry standards are for</p> <p>17 creating an IFU.</p> <p>18 Q. (By Mr. Zonies) And what would you</p> <p>19 point to as your reliance for what the industry</p> <p>20 standards are when creating an IFU?</p> <p>21 A. I would go back to the FDA documents.</p> <p>22 There's a blue book from, I think, 1993 where the</p> <p>23 FDA had come up with some recommendations. There's</p> <p>24 some other documents, I'm blanking on the author's</p> <p>25 name or the year, but FDA documents that I've</p>

<p style="text-align: right;">Page 34</p> <p>1 reviewed most recently that I've mentioned in other</p> <p>2 testimonies that do give some recommendations on</p> <p>3 what should be included in the IFU.</p> <p>4 Q. And have you ever reviewed Ethicon's</p> <p>5 internal standard operating procedures about what</p> <p>6 Ethicon believes should or should not be in an IFU?</p> <p>7 A. I don't believe so.</p> <p>8 Q. And Doctor, in your reliance materials,</p> <p>9 can you point me to the FDA materials that you're</p> <p>10 relying upon?</p> <p>11 A. The FDA material that I'm relying on I</p> <p>12 believe I reviewed in preparation of another</p> <p>13 deposition, so I don't believe it's on the reliance</p> <p>14 list for this particular report.</p> <p>15 Q. So Doctor, when do you believe you first</p> <p>16 started to use the TVT-Retropubic device?</p> <p>17 A. Specific to the Ethicon product?</p> <p>18 Q. Yes.</p> <p>19 A. Sometime around 2004 or 2005 I started</p> <p>20 using the Ethicon products. The first product I</p> <p>21 used was TVT-Obturator. That was in 2004.</p> <p>22 Sometime after that I used the TVT classic device.</p> <p>23 And that's specific to my own practice. I started</p> <p>24 my practice in 2002 at the University of Colorado</p> <p>25 where I've practiced continuously since that time.</p>	<p style="text-align: right;">Page 36</p> <p>1 products, autologous material, TVT, bone-anchored</p> <p>2 slings, biological slings. So I gained a lot of</p> <p>3 experience as a resident and a fellow, but when I</p> <p>4 wrote the report, I believe the way I wrote that</p> <p>5 was with respect to my own practice, so maybe</p> <p>6 that's why there's some discrepancy in the years.</p> <p>7 Q. Because in your other reports, your</p> <p>8 TVT-Obturator report and the TVT-S report, you</p> <p>9 actually say that the first time you used a TVT-R</p> <p>10 was in 2001. Are you aware of that?</p> <p>11 A. I'm not aware of that. What is</p> <p>12 confusing sometimes is the word "TVT" is often used</p> <p>13 interchangeably with "midurethral sling," so the</p> <p>14 TVT may have been stated, but it was really a Sparc</p> <p>15 or some other product. So I started using</p> <p>16 trocar-based polypropylene mesh slings as a</p> <p>17 resident. I didn't keep very close records as a</p> <p>18 resident and a fellow what products I used since I</p> <p>19 wasn't making the decision. You know, that wasn't</p> <p>20 something that was important to me then.</p> <p>21 Q. So if you turn to page 22 of your</p> <p>22 report, Doctor, that's where it discusses when you</p> <p>23 began using these devices. Let me know when you're</p> <p>24 at page 22.</p> <p>25 A. Yes.</p>
<p style="text-align: right;">Page 35</p> <p>1 I may have used the product earlier during my</p> <p>2 fellowship or residency, but I wasn't making the</p> <p>3 decisions about what products I was selecting. So</p> <p>4 I know, especially during my fellowship year, I had</p> <p>5 used a variety of products as my mentor at the</p> <p>6 time, George Webster, was trying various products</p> <p>7 to decide what he wanted to use in his practice.</p> <p>8 Q. In your report, you recognize that you</p> <p>9 say that you first used the TVT-Retropubic in 1999.</p> <p>10 That's likely incorrect, isn't it?</p> <p>11 A. Well, it would be incorrect if I</p> <p>12 included my residency. But if I include my own</p> <p>13 practice, then it would be incorrect. But I think</p> <p>14 when I wrote that report, it was in the context of</p> <p>15 part of my training.</p> <p>16 Q. You don't have any specific recollection</p> <p>17 of using a TVT-Retropubic until 2005; is that fair?</p> <p>18 A. No, that's not fair. What I had</p> <p>19 mentioned was -- the way I answered that question</p> <p>20 was, in my own practice, it started in 2002. In</p> <p>21 1995, I started my residency. I started my urology</p> <p>22 years in 1997, so in 1998, I would have been a</p> <p>23 second-year resident. One of my mentors, Wen Yap,</p> <p>24 did a number of incontinence procedures, and I had</p> <p>25 used a variety of kits with him, biological</p>	<p style="text-align: right;">Page 37</p> <p>1 Q. You got that? Okay. And you say, "I</p> <p>2 had been using both the TVT-Obturator since 2004</p> <p>3 and retropubic kits since 1999." That's what you</p> <p>4 wrote, correct?</p> <p>5 A. Yes. And that's correct. So</p> <p>6 "retropubic kits" is just a generic term. That</p> <p>7 could include Sparc. That could include TVT. That</p> <p>8 could include Boston Scientific products. So</p> <p>9 that's any retropubic kit.</p> <p>10 Q. And if I recall correctly from your</p> <p>11 earlier testimony, you know for sure that you</p> <p>12 started using TVT products in 2004 when you started</p> <p>13 to use the TVT-Obturator, correct?</p> <p>14 MS. SCHMID: Objection; misstates prior</p> <p>15 testimony.</p> <p>16 Go ahead.</p> <p>17 A. What I know is that when I started in my</p> <p>18 practice, I used the American Medical Systems</p> <p>19 products from 2002 to 2004 at the University of</p> <p>20 Colorado and affiliated hospitals. And then in</p> <p>21 2004 I switched from the American Medical Systems</p> <p>22 products to the Ethicon products, for the most</p> <p>23 part. There was exceptions based on what hospitals</p> <p>24 I practiced at, but that was a big switch. When</p> <p>25 TVT-Obturator became available, I was immediately</p>

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<p>1 attracted to that product.</p> <p>2 Q. (By Mr. Zonies) Is it fair to say that</p> <p>3 from 2004 you had a preference for the obturator</p> <p>4 approach?</p> <p>5 A. I had a preference for the obturator</p> <p>6 approach from 2004 to probably around 2008 or '9.</p> <p>7 Q. And so why did you have a preference for</p> <p>8 the obturator approach as compared to the</p> <p>9 TVT-Retropubic?</p> <p>10 A. A few reasons. One, there was less</p> <p>11 voiding dysfunction, so less urinary retention or</p> <p>12 bladder incomplete emptying. There was a lower</p> <p>13 risk of trocar injury to the bladder when placing</p> <p>14 the device. The procedure, at least in my hands,</p> <p>15 was slightly easier to perform as an outpatient</p> <p>16 with minimal anesthetic requirements. So those</p> <p>17 were the main reasons.</p> <p>18 Q. So would it be fair to say that in that</p> <p>19 time frame, from 2004 until 2000 I think you said,</p> <p>20 '8 or '9, that the majority of your procedures were</p> <p>21 either using the TVT-Obturator device or, in those</p> <p>22 later years, the TVT-Secur?</p> <p>23 A. I've always performed a variety of</p> <p>24 midurethral slings, but I always have had a</p> <p>25 preference. In addition to performing midurethral</p>	<p>1 Q. Yes.</p> <p>2 A. Somewhere around 75.</p> <p>3 Q. And do you have a sense of, from the --</p> <p>4 well, since you've been tracking which devices</p> <p>5 you've been using, is that spread pretty evenly</p> <p>6 over the years, or was there one or two years where</p> <p>7 you did most of those?</p> <p>8 A. TVT classic was never the procedure I</p> <p>9 did most frequently. I generally reserved that for</p> <p>10 patients with more severe incontinence due to</p> <p>11 intrinsic sphincter deficiency. If you look at the</p> <p>12 medical literature and the Cochrane reviews, the</p> <p>13 Schimpff study, the TOMUS trial, there is a slight</p> <p>14 preference towards improved efficacy in patients</p> <p>15 with intrinsic sphincter deficiency with the</p> <p>16 retropubic approach when opposed to the</p> <p>17 transobturator approach. So there is slightly more</p> <p>18 risk with the retropubic approach in terms of</p> <p>19 voiding dysfunction and bladder perforation, so I</p> <p>20 tried to justify that risk when I had patients that</p> <p>21 had had more severe incontinence, maybe a prior</p> <p>22 failed procedure, et cetera.</p> <p>23 Q. So the typical patient for whom you</p> <p>24 would have used a TVT-Retropubic device wouldn't</p> <p>25 have been the index patient. It would have been a</p>
Page 39	Page 41
<p>1 slings, I've always performed biological slings at</p> <p>2 the same time in my practice on different patients</p> <p>3 as well as bulking agents, artificial urinary</p> <p>4 sphincter. I tend to perform four or five</p> <p>5 different types of procedures for incontinence, but</p> <p>6 I always had a preference. And there was always</p> <p>7 one procedure that I would say that I did most</p> <p>8 frequently. So that was TVT-Obturator from 2004</p> <p>9 'til TVT-Secur became available around 2008 or '9.</p> <p>10 Then I did mostly TVT-Secur. And then I switched</p> <p>11 doing mostly TVT-Abbrevio. And then at a later</p> <p>12 date, I migrated back to doing mostly retropubic.</p> <p>13 Q. Using the TVT-Exact?</p> <p>14 A. Correct.</p> <p>15 Q. There was a certain period of time where</p> <p>16 you actually tracked the devices that you were</p> <p>17 using; is that right?</p> <p>18 A. Yes.</p> <p>19 Q. What was that period of time?</p> <p>20 A. Since 2004, I've been tracking which</p> <p>21 devices I've been using until current.</p> <p>22 Q. And do you have a sense from your data</p> <p>23 how many TVT-Retropubic devices you implanted</p> <p>24 between 2004 and today?</p> <p>25 A. Just of the classic product?</p>	<p>1 patient with certain characteristics, such as ISD</p> <p>2 or a prior failed sling of some sort; is that fair?</p> <p>3 A. For the most part. There were some</p> <p>4 exceptions where patients who were index patients</p> <p>5 that would receive the retropubic procedure, but</p> <p>6 that was unusual.</p> <p>7 Q. Where did you and how did you come to</p> <p>8 the knowledge that the O had fewer risks than the</p> <p>9 R?</p> <p>10 MS. SCHMID: Objection; foundation.</p> <p>11 Go ahead.</p> <p>12 A. That was based on some preliminary data</p> <p>13 that I had seen from Dr. De Leval's publications,</p> <p>14 and then from Dr. DeLorme, the outside-to-in</p> <p>15 approach. Generally, when you look at those</p> <p>16 obturator approaches, what we generically sometimes</p> <p>17 call TOTs, which include inside-out and</p> <p>18 outside-to-in procedures, it just seems obvious</p> <p>19 that you're going to be less likely to hit the</p> <p>20 bladder. I don't see any possibility where you</p> <p>21 would hit the intestine, less risk of major</p> <p>22 bleeding. So some of that was based on what the</p> <p>23 medical literature showed. Others was based on my</p> <p>24 medical training and education from doing</p> <p>25 dissections in cadaver labs. It's just a simpler</p>

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<p>1 space, the obturator space, than the retropubic</p> <p>2 space.</p> <p>3 Q. So you said that you don't see any</p> <p>4 possibility where you would hit the intestine.</p> <p>5 A. On a transobturator procedure.</p> <p>6 Q. So one of the benefits of an obturator</p> <p>7 approach as compared to the TVT-Retropubic would be</p> <p>8 less risk of intestinal perforation and injury?</p> <p>9 A. That's correct.</p> <p>10 Q. And you also said less risk of major</p> <p>11 bleeding with the TVT-Obturator approach as</p> <p>12 compared to the retropubic, correct?</p> <p>13 A. That's what I stated, yes.</p> <p>14 Q. Bowel perforation is a very serious</p> <p>15 complication associated with the TVT-Retropubic; is</p> <p>16 that true?</p> <p>17 MS. SCHMID: Objection; form, foundation.</p> <p>18 A. Well, there's two statements there. I</p> <p>19 agree it is a serious complication, but it's rarely</p> <p>20 associated with a retropubic procedure. I think it</p> <p>21 would probably happen in less than 1/100th of the</p> <p>22 procedures. So I wouldn't say it's associated with</p> <p>23 the retropubic procedure.</p> <p>24 Q. (By Mr. Zonies) And, I'm sorry, maybe</p> <p>25 I'm getting it wrong.</p>	<p>1 other products that aren't TVTs that I've done,</p> <p>2 such as the Boston Scientific Advantage Fit, AMS</p> <p>3 Sparc, AMS BioArc, MiniArc.</p> <p>4 So there's quite a few products there. But</p> <p>5 if you just look at the retropubic procedures</p> <p>6 alone, I've done over 200 retropubic procedures.</p> <p>7 So I don't know the exact breakdown of what that</p> <p>8 amounts to, Joe. I'd say at least 25 percent of my</p> <p>9 procedures have been retropubic procedures if you</p> <p>10 add up all the different products for retropubic</p> <p>11 products.</p> <p>12 Q. And of those, it looks like about a</p> <p>13 quarter of those would have been TVT-Retropubic; is</p> <p>14 that fair?</p> <p>15 A. A quarter?</p> <p>16 Q. A quarter of your retropubic surgeries.</p> <p>17 A. Well, if you just look at the Ethicon</p> <p>18 products, I've done 100 TVT-Exact and 75 TVT</p> <p>19 classic, so that's 175. The denominator of, say,</p> <p>20 if I did 800 slings, then that would be roughly a</p> <p>21 quarter of all midurethral slings.</p> <p>22 Q. And if we take 75 TVT-Rs of your total</p> <p>23 of 800 procedures, it's less than 10 percent --</p> <p>24 fewer than 10 percent of the surgeries that you've</p> <p>25 done with midurethral slings are TVT-Retropubic; is</p>
Page 43	Page 45
<p>1 When you said that one of the benefits of</p> <p>2 the TVT-Obturator as compared to the TVT-Retropubic</p> <p>3 is less risk of an intestinal injury, did you mean</p> <p>4 a bowel perforation?</p> <p>5 A. Correct.</p> <p>6 Q. Over the period of time where you did 75</p> <p>7 total TVT-Retropubic surgeries, how many total</p> <p>8 surgeries did you do? In other words, what's the</p> <p>9 percentage?</p> <p>10 A. Of -- percentage of what?</p> <p>11 Q. Excellent question.</p> <p>12 What's the percentage of midurethral slings</p> <p>13 that the TVT-Retropubic makes up? About one in</p> <p>14 ten, or fewer than that?</p> <p>15 A. Well, as I've stated in my reports and</p> <p>16 other depositions, I've done 800 or so midurethral</p> <p>17 slings, of which 500 are Ethicon products. And in</p> <p>18 preparation of this deposition, I've looked at this</p> <p>19 recently, so I've done, I think, around 180 to 200</p> <p>20 or so, hard to remember the exact number,</p> <p>21 TVT-Securs. That's the most common product I've</p> <p>22 used. I've done 140 or so obturator procedures,</p> <p>23 that would include TVT-O and TVT-Abbrevio as a</p> <p>24 group. I've done 75 of the TVT classic. I've done</p> <p>25 approximately 100 TVT-Exacts. And then there's</p>	<p>1 that fair?</p> <p>2 A. Well, 80 into 800 would be 110, so less</p> <p>3 than one tenth.</p> <p>4 Q. I can do that math.</p> <p>5 A. Yeah, your math is getting better.</p> <p>6 Q. And when do you think was the last time</p> <p>7 you used a TVT-Retropubic?</p> <p>8 A. When TVT-Exact became available, so I</p> <p>9 think I stated earlier around 2011 or so.</p> <p>10 Q. I'm going to mark Exhibit 7, Dr. Flynn.</p> <p>11 (Exhibit 7 was marked for identification.)</p> <p>12 Q. (By Mr. Zonies) Exhibit 7 is an e-mail</p> <p>13 from -- well, the first e-mail in the series is</p> <p>14 from Lori Campbell to Scott Jones, March 5th, 2004;</p> <p>15 do you see that?</p> <p>16 A. Yes.</p> <p>17 Q. And the subject is you, Dr. Brian Flynn,</p> <p>18 correct?</p> <p>19 A. That's correct.</p> <p>20 Q. In that e-mail -- who is Lori Campbell,</p> <p>21 first of all?</p> <p>22 A. She is Scott Jones' boss.</p> <p>23 Q. And Scott Jones is who?</p> <p>24 A. He was a regional professional education</p> <p>25 manager in the western United States before John</p>

<p style="text-align: right;">Page 46</p> <p>1 Fernandez and Lori Campbell was both of their 2 bosses at different time points. 3 Q. And Ms. Campbell writes in the second 4 paragraph -- well, first, Ms. Campbell writes, 5 "Scott, we would like to expedite an offer to 6 Dr. Flynn to become a local preceptor for 7 Gynecare"; is that right? 8 A. Correct. 9 Q. And this is about when you first became 10 a preceptor and started consulting with Ethicon in 11 March of 2004; is that right? 12 A. That's right. 13 Q. And she writes in the second paragraph, 14 "I am attaching the TVT Preceptor Recommendation 15 Form. I understand you've observed his first TVT 16 Gynemesh case this week and he is ready to convert 17 the business. Congratulations." Is that what she 18 wrote there? 19 A. Yes. 20 Q. And is that fairly consistent with your 21 recollection that in your practice, the first time 22 you used a TVT-Retropubic was around 2004? 23 A. As the attending physician, yes. 24 Q. And do you understand what it means when 25 Ms. Campbell writes, "He is ready to convert the</p>	<p style="text-align: right;">Page 48</p> <p>1 products I used. And I think because of my 2 tremendous teaching skills, that she knew that I 3 would be able to help educate physicians on their 4 products. 5 Q. (By Mr. Zonies) And, in fact, that came 6 true, right? You became a wonderful asset to 7 Gynecare, correct? 8 A. I believe I provided a good service to 9 Ethicon and Gynecare, and value to the company and 10 their customers. 11 MS. SCHMID: Joe, when there's a time within 12 the next couple of minutes, if we could take a 13 quick break? 14 MR. ZONIES: Yeah, we can do it now. 15 MS. SCHMID: Is that okay? 16 MR. ZONIES: Sure. 17 MS. SCHMID: All right. Thank you. 18 THE WITNESS: Can we just finish this 19 e-mail? 20 MS. SCHMID: Oh, my gosh, yes. 21 THE WITNESS: Let's just finish this thing. 22 Q. (By Mr. Zonies) You have more to say? 23 A. I don't, but I thought you probably did. 24 Q. No, I'm finished with the e-mail. 25 A. Okay. Very good.</p>
<p style="text-align: right;">Page 47</p> <p>1 business"? 2 A. No, I am not -- 3 MS. SCHMID: Objection; foundation. 4 A. It sounds like she's happy that I'm 5 going to use her products, but I don't -- I can't 6 say anything beyond that. 7 Q. (By Mr. Zonies) And she writes in the 8 last sentence, "It sounds like he will be a 9 wonderful asset to Gynecare and the Western 10 region." Do you know what she means when she 11 writes that? 12 MS. SCHMID: Objection; form, foundation. 13 A. I do. 14 Q. (By Mr. Zonies) What does she mean? 15 A. Well, I've largely been considered the 16 key opinion leader in the western United States 17 with reference to incontinence since the first day 18 of my practice. One of the reasons I moved west is 19 there wasn't a lot of experts in incontinence, 20 especially in the state of Colorado. I was 21 recruited here to start a practice in female pelvic 22 medicine and reconstructive surgery. She knew I 23 was a thought leader, that I educated residents and 24 fellows. And a lot of other people in the state 25 would be influenced based on what I did and what</p>	<p style="text-align: right;">Page 49</p> <p>1 (Recess taken from 2:09 p.m. until 2 2:25 p.m.) 3 Q. (By Mr. Zonies) Doctor, are you ready 4 to go after a break? 5 A. Yes, I am. 6 Q. Earlier, Doctor, we were talking about 7 your speaker's bureau work with Ethicon. Do you 8 remember those conversations? 9 A. Yes, I do. 10 Q. And that at some period of time, you 11 were on the speaker's bureau for Ethicon, from 12 roughly 2004 through 2011, correct? 13 A. Correct. 14 Q. And that during that period of time, 15 you -- when you were asked to give a talk, would 16 Ethicon compensate you for those talks? 17 A. Yes, they would. 18 Q. And would Ethicon sometimes pay for your 19 travel to give those talks? 20 A. Yes. If I was already not there, if it 21 was a meeting maybe I was attending, they would 22 not, but if it was the only reason why I went 23 there, then yes. 24 Q. And Ethicon would also pay for your 25 meals during those trips; is that correct?</p>

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<p>1 A. That's correct.</p> <p>2 Q. And you discussed that in some of those</p> <p>3 talks that you gave on the speaker's bureau that</p> <p>4 the materials would be provided to you by Ethicon,</p> <p>5 correct?</p> <p>6 A. Correct.</p> <p>7 Q. And that you weren't permitted to change</p> <p>8 those materials, correct?</p> <p>9 A. Correct.</p> <p>10 Q. Now, Doctor, you have been at the</p> <p>11 University of Colorado for most of your career; is</p> <p>12 that correct?</p> <p>13 A. Yes.</p> <p>14 Q. And at the University of Colorado, there</p> <p>15 are conflicts policies for physicians in your</p> <p>16 position, correct?</p> <p>17 A. Correct.</p> <p>18 Q. And were you aware that when you were</p> <p>19 giving these talks for Ethicon as part of the</p> <p>20 speaker's bureau that it violated the University of</p> <p>21 Colorado's conflicts policies?</p> <p>22 MS. SCHMID: Objection; form, assuming facts</p> <p>23 not in evidence.</p> <p>24 A. I was not aware of that.</p> <p>25 Q. (By Mr. Zonies) So I'll mark what's</p>	<p>1 2011 or 2012 policy, those speaker's bureau talks</p> <p>2 would have violated the new policy, correct?</p> <p>3 MS. SCHMID: Objection; vague, compound.</p> <p>4 A. I'm not going to agree to that, no.</p> <p>5 Q. (By Mr. Zonies) And if you take a look</p> <p>6 at Exhibit 8, Doctor, and you turn to page 6,</p> <p>7 there's a section called "Participation on speakers</p> <p>8 bureaus"; do you see that?</p> <p>9 A. I do.</p> <p>10 Q. And it says, "Speakers bureaus, which</p> <p>11 are often 'little more than extensions of a</p> <p>12 company's marketing department' may pose real or</p> <p>13 perceived conflicts of interest." Do you agree</p> <p>14 with that statement?</p> <p>15 A. No, I do not.</p> <p>16 Q. And "HSC," it says. And that's your</p> <p>17 employer, correct, HSC?</p> <p>18 A. "Health science centers" is a generic</p> <p>19 term. This contract's one that all the schools</p> <p>20 have. So this contract I don't believe is written</p> <p>21 specific for the University of Colorado, so when</p> <p>22 they say HSC, health science center, that's not</p> <p>23 University of Colorado, that's not University</p> <p>24 Physicians, Inc. HSC is health science center.</p> <p>25 Q. But this policy would apply to you,</p>
Page 51	Page 53
<p>1 Exhibit 8, which is entitled "A Policy to Limit</p> <p>2 Conflicts of Interest Between Healthcare</p> <p>3 Professionals and Industry Representatives for the</p> <p>4 University of Colorado."</p> <p>5 (Exhibit 8 was marked for identification.)</p> <p>6 Q. (By Mr. Zonies) Have you seen that</p> <p>7 policy before?</p> <p>8 A. Yes, I have.</p> <p>9 Q. And is this a policy that would have</p> <p>10 applied to you from 2008 forward?</p> <p>11 A. I believe the policy went into effect</p> <p>12 around 2011.</p> <p>13 Q. And there is, indeed, a 2012 policy, I</p> <p>14 think, that updates this policy. Were you aware</p> <p>15 that this 2008 policy existed prior to that?</p> <p>16 MS. SCHMID: Objection; vague, foundation.</p> <p>17 Go ahead.</p> <p>18 A. I was aware that the school was in the</p> <p>19 process of developing a policy that had gone</p> <p>20 through the faculty senate, and so it had gone</p> <p>21 through a number of iterations, and so I don't</p> <p>22 believe anything was set in stone until 2011.</p> <p>23 Q. (By Mr. Zonies) The speaker's bureau</p> <p>24 that you were doing for Ethicon from 2004 through</p> <p>25 2011, under the policy that you're speaking of, the</p>	<p>1 correct?</p> <p>2 A. I don't believe this policy applied to</p> <p>3 me, no.</p> <p>4 Q. And let me clarify that. That's because</p> <p>5 you didn't think that this was a -- you don't</p> <p>6 believe, as you sit here today, that this policy</p> <p>7 was in effect as of 2008; is that correct?</p> <p>8 A. There's a variety of reasons why I</p> <p>9 didn't think it was applicable, and so I believe</p> <p>10 that this was written primarily as it pertains to</p> <p>11 relationships with pharma, and not medical device</p> <p>12 companies. Speaking bureau, I don't think that's</p> <p>13 an accurate description on what I was doing for</p> <p>14 Ethicon. That's not what I considered my role</p> <p>15 there. So there's a lot of exceptions to this</p> <p>16 policy.</p> <p>17 Q. Okay. And so if you turn to page 2,</p> <p>18 where it says "Background," do you have that</p> <p>19 section?</p> <p>20 A. Yes.</p> <p>21 Q. And the third sentence, it says -- it's</p> <p>22 discussing use of drugs and medical devices, right?</p> <p>23 So this clearly applies to medical devices,</p> <p>24 correct? Third line down.</p> <p>25 A. Yeah, I see that. It's not saying it</p>

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<p>1 applies to them. This is just background 2 information, an introduction paragraph. 3 Q. And then if you look at "Scope of 4 Policy," it says, "This policy applies" -- on the 5 bottom of that page, "This policy applies to all 6 health sciences students, residents and other 7 trainees, and to all regular faculty members at the 8 University of Colorado Denver Schools of Dental 9 Medicine, Medicine, Nursing, public Health and 10 Pharmacy. Health sciences library faculty are also 11 covered by this policy. The term 'health science 12 students, residents and faculty' is used to 13 describe all these parties in an inclusive manner." 14 Would that include you? 15 A. Well, I am a faculty member, so . . . 16 Q. So yes, that would include you? 17 A. Yes. 18 Q. If you turn to where we were, page 6, 19 about participation on speakers' bureaus, the 20 second sentence says, "HSC students, residents and 21 faculty," we've determined that includes you, 22 correct? 23 A. Correct. 24 Q. "HSC faculty may not participate in or 25 receive compensation for talks through a speakers</p>	<p>1 A. A speaker's bureau is a commonly 2 recognized term that is related to pharmaceutical 3 industry where you go out and give dinner talks, et 4 cetera, on behalf of the company and you use the 5 company slides. What I did is very different than 6 that. My primary role in the consulting with 7 Ethicon was being part of the innovation council, 8 doing cadaver labs, doing preceptorships and 9 proctorships. Those were the roles. The slide 10 deck and the talks, that really wasn't my role. 11 That was something that was generally performed by 12 other consultants more senior than me. So 13 typically, when I attended a course or when I 14 participated in a course, I was the person doing 15 more the instruction during the cadaver lab portion 16 and then doing the preceptorships and proctorships. 17 The dinner talks and the prof ed -- you 18 know, the dinner programs as you're referring to, I 19 think that's what this policy is referring to. 20 That's really not what I did. 21 Q. But we've established that you used 22 their slide decks to give talks, correct? It may 23 not have been most of what you did, but you have 24 done that, correct? 25 A. I've used them as part of preceptorships</p>
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<p>1 bureau if, A, the content of the lectures, slides, 2 references or educational handouts is subject to 3 approval by industry representatives." 4 First, did I read that correctly? 5 A. Yes, you read it correctly. 6 Q. And you've testified that the content of 7 the slides that you presented on as a member of 8 Ethicon's speaker's bureau, that the content of 9 those slides was written by Ethicon and you weren't 10 permitted to change it, correct? 11 A. Correct. 12 Q. So if this policy were in place, you 13 violated this policy, correct? 14 MS. SCHMID: Objection; form, assuming facts 15 not in evidence, calls for a legal conclusion. 16 A. First of all, it was not in place. 17 Second of all, I don't believe I violated it. 18 Q. (By Mr. Zonies) And which portion -- I 19 understand you don't believe this was in place, so 20 my questions will be based on an assumption that it 21 was in place. 22 So assuming this were in place, where do you 23 think you didn't violate this section I just read? 24 MS. SCHMID: Same objections. 25 Go ahead.</p>	<p>1 and proctorships. You know, I've had them in my 2 possession. I've used them to educate myself and 3 residents, but no, I wasn't -- I wasn't part of the 4 speaker's bureau. There was no speaker's bureau 5 that really existed. That's not -- you can read 6 that e-mail that we looked at earlier. And I don't 7 think the word "speaker's bureau" is ever even 8 mentioned in Exhibit 7. It says, "Dr. Flynn to 9 become a local preceptor for Gynecare." It doesn't 10 say Dr. Flynn's going to enter our speaker bureau. 11 "In addition, we'd like to invite him to the 12 preceptor summit." So the whole idea of being a 13 preceptor or being a proctor was try to help 14 educate people on the surgical procedures. As a 15 surgeon, that's what I did. 16 Q. So earlier -- and just to be clear, 17 earlier you testified you were on the speaker's 18 bureau for Ethicon and your testimony now is that 19 you were not on the speaker's bureau for Ethicon? 20 A. What my testimony was earlier and now is 21 that I was a consultant from 2004 to 2011. That's 22 what I've stated multiple times. And you 23 characterized me as being on the speaker's bureau. 24 That's not a characterization that I've used or 25 that I've seen Ethicon use in any of their e-mails</p>

<p style="text-align: right;">Page 58</p> <p>1 or in the consulting agreement that I submitted</p> <p>2 earlier. We can go back and look at the consulting</p> <p>3 agreement and see what terms are on there, but I</p> <p>4 don't believe the word "speaker's bureau" is on the</p> <p>5 title of that contract.</p> <p>6 Q. Do you think "speaker's bureau" is in</p> <p>7 the contract?</p> <p>8 A. It may be in there, but it itemizes all</p> <p>9 the different activities a consultant can do. And</p> <p>10 what I mentioned is my activities were precepting</p> <p>11 and proctoring, developing videos and content.</p> <p>12 That's primarily what my role was.</p> <p>13 Q. The next paragraph down says, "All</p> <p>14 speaking relationships and contracts are subject to</p> <p>15 review and approval by the university."</p> <p>16 Did you ever submit your contracts to the</p> <p>17 university for their approval and review?</p> <p>18 A. Yes.</p> <p>19 Q. When did you do that?</p> <p>20 A. I don't recall.</p> <p>21 Q. Did you ever accept pens, note pads,</p> <p>22 mugs, pen lights, calipers, textbooks, free or</p> <p>23 discounted tickets to sporting events from Ethicon?</p> <p>24 A. No.</p> <p>25 Q. You never took an Ethicon pen?</p>	<p style="text-align: right;">Page 60</p> <p>1 First, did I read that correctly?</p> <p>2 A. Yes.</p> <p>3 Q. And that policy, if it were in effect,</p> <p>4 would apply to you, correct?</p> <p>5 MS. SCHMID: Objection; foundation, assumes</p> <p>6 facts not in evidence.</p> <p>7 A. Yes.</p> <p>8 Q. (By Mr. Zonies) And so by accepting</p> <p>9 meals, beverages and other hospitality, for</p> <p>10 example, Ethicon would pay for your hotel rooms and</p> <p>11 travel, correct?</p> <p>12 A. Correct.</p> <p>13 Q. You would have violated this policy if</p> <p>14 it were in effect, correct?</p> <p>15 A. Not correct.</p> <p>16 Q. Why not?</p> <p>17 A. I can't violate a policy that's not in</p> <p>18 effect. I mean, that's -- it's completely</p> <p>19 hypothetical. And this policy was not approved by</p> <p>20 the faculty senate. This is a policy that was</p> <p>21 proposed. What you put in front of me in 2008 was</p> <p>22 never approved. So of course nobody adhered to</p> <p>23 rules that didn't exist. This is completely</p> <p>24 hypothetical. And so, I mean, this whole line of</p> <p>25 questioning is really ridiculous.</p>
<p style="text-align: right;">Page 59</p> <p>1 A. No.</p> <p>2 Q. Did you ever -- we've discussed that</p> <p>3 you -- Ethicon would sometimes purchase meals for</p> <p>4 you when you were traveling; is that right?</p> <p>5 A. Yes.</p> <p>6 Q. And some of these were for Ethicon, I</p> <p>7 think you described them as Ethicon talks; is that</p> <p>8 right? Not professional-society talks.</p> <p>9 A. These were industry sponsored events</p> <p>10 that Ethicon was the sponsor primarily. There were</p> <p>11 sometimes joint events, but for the most part, they</p> <p>12 were the only sponsor.</p> <p>13 Q. They weren't, for example -- you gave</p> <p>14 these talks sometimes at an Ethicon-sponsored event</p> <p>15 that wasn't tied to AUGS or SUFU or some</p> <p>16 professional society, correct?</p> <p>17 A. Correct.</p> <p>18 Q. So if you turn to page 4 of the policy,</p> <p>19 you'll see "Gifts and Meals"; do you see that?</p> <p>20 A. I do.</p> <p>21 Q. And it says that, number 3, "Meals,</p> <p>22 beverages, snacks or other hospitality paid for by</p> <p>23 industry or industry representatives shall not be</p> <p>24 provided to or accepted by HSC students, residents</p> <p>25 or faculty."</p>	<p style="text-align: right;">Page 61</p> <p>1 Q. So when this policy was proposed, were</p> <p>2 you part of working on this policy?</p> <p>3 A. No, I wasn't on the faculty senate.</p> <p>4 Q. Did you attend any of the discussions</p> <p>5 about what should or shouldn't be in the policy?</p> <p>6 A. I provided feedback to my</p> <p>7 representative, but I wasn't at the actual meetings</p> <p>8 or any of the votes.</p> <p>9 Q. And who was your representative?</p> <p>10 A. One of my partners.</p> <p>11 Q. Who was that?</p> <p>12 A. Shandra Wilson.</p> <p>13 Q. And you provided feedback on -- do you</p> <p>14 recall what type of feedback you provided?</p> <p>15 A. Just that I disagreed with a number of</p> <p>16 the items in this policy. I thought it was</p> <p>17 overreaching and was not legally valid. You can't</p> <p>18 prohibit someone from doing what they want to do on</p> <p>19 their free time as their employer. And I think</p> <p>20 that's been adjudicated in different venues. But</p> <p>21 if someone's on their free time, if it's the</p> <p>22 weekend, the employer has no right to dictate what</p> <p>23 the employee should do with their free time. So</p> <p>24 all of these things that I did were on my own time,</p> <p>25 either on vacation time, at night, or on the</p>

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<p>1 weekends. And for that reason, that's why this</p> <p>2 policy didn't get approved in this form, because</p> <p>3 the overwhelming majority of the faculty did not</p> <p>4 agree or wanted to abide by something that, you</p> <p>5 know, was so overreaching.</p> <p>6 Q. And do you feel that it's important for</p> <p>7 you when you publish a paper to disclose that you</p> <p>8 were or are a consultant for a medical device</p> <p>9 company?</p> <p>10 MS. SCHMID: Objection; vague.</p> <p>11 Go ahead.</p> <p>12 A. I adhere to what the publication</p> <p>13 requests. So what most publications ask is that if</p> <p>14 the publication pertains to a particular product</p> <p>15 that you're writing about, and you're a consultant</p> <p>16 that's active at the time, then yes. So there's a</p> <p>17 lot of caveats to that statement. But I'm familiar</p> <p>18 with the various, you know, requests from the</p> <p>19 various journals.</p> <p>20 Q. (By Mr. Zonies) So you published a</p> <p>21 paper in 2013 in the International Urogynecology</p> <p>22 Journal, correct?</p> <p>23 A. Correct.</p> <p>24 Q. And in that 2013 publication, during the</p> <p>25 time when this paper was written and then</p>	<p>1 be an expert in Ethicon TVT litigation, correct?</p> <p>2 A. I don't agree with that, no.</p> <p>3 Q. And you certainly didn't disclose that</p> <p>4 you were an expert witness in the Ethicon TVT</p> <p>5 litigation in this article, did you?</p> <p>6 A. What I'll say is I'm not aware of a</p> <p>7 single author ever that's ever disclosed in any</p> <p>8 article expert witness work, not Dr. Ostergard, not</p> <p>9 Dr. Elliot, not Jerry Blaivas, not Dr. Rosenzweig,</p> <p>10 not Dr. Margolis. So that's not a standard that</p> <p>11 anybody adheres to. The consulting relationships</p> <p>12 and what's offered in the disclosures are related</p> <p>13 to pharma and medical device companies. No one</p> <p>14 that I'm aware of -- maybe you can show me an</p> <p>15 article where someone's ever disclosed</p> <p>16 medical-legal consulting work as a conflict of</p> <p>17 interest, even in articles that pertain to</p> <p>18 medical-legal work.</p> <p>19 Q. So is it your testimony, as you sit here</p> <p>20 today, that if you publish an article in a</p> <p>21 peer-reviewed paper about the TVT-Retropubic</p> <p>22 device, you would not disclose that you're an</p> <p>23 expert witness working on the Ethicon litigation?</p> <p>24 A. That's correct.</p> <p>25 Q. One of your opinions about the TVT mesh</p>
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<p>1 published, you were acting as an expert consultant</p> <p>2 for Ethicon in this litigation, correct?</p> <p>3 A. I wouldn't agree with that, no.</p> <p>4 Q. You weren't acting as an expert for</p> <p>5 Ethicon in 2013?</p> <p>6 A. I was doing consulting work at the</p> <p>7 request of Butler and Snow. I wasn't employed by</p> <p>8 Ethicon. I wasn't directly paid by Ethicon, so</p> <p>9 that's one reason why I didn't disclose that.</p> <p>10 Number two, I don't believe the article</p> <p>11 really had anything to do specific to a product.</p> <p>12 That article pertains to a number of products that</p> <p>13 we listed. And, in fact, I'm not aware of any</p> <p>14 other article that had listed all of the products</p> <p>15 the way I did in Table 2 or 3 in that article.</p> <p>16 When you compare that to other articles, I think</p> <p>17 that we were transparent in which products were</p> <p>18 removed.</p> <p>19 Q. Correct. And in this article, in fact,</p> <p>20 Table 2, good memory, you specifically list</p> <p>21 Ethicon's TVT as one of the devices that you are</p> <p>22 writing about in this article, correct?</p> <p>23 A. Correct.</p> <p>24 Q. And at this time, you were engaged as an</p> <p>25 expert witness by Ethicon's lawyers to testify and</p>	<p>1 that's used in the TVT and the TVT-O and S and</p> <p>2 Exact and Abbrevio is that you don't believe that it</p> <p>3 degrades; is that correct?</p> <p>4 A. That's correct.</p> <p>5 Q. And first of all, what does "degrade"</p> <p>6 mean to you, in your expert opinion?</p> <p>7 A. Well, usually, when I think of</p> <p>8 degradation, I think of it often at a macroscopic</p> <p>9 level, so seeing gross breaks or cracks,</p> <p>10 fragmentation of a product.</p> <p>11 Q. And it's page 27 in your report if you</p> <p>12 wanted to turn to it. I'm sorry to interrupt. Go</p> <p>13 ahead.</p> <p>14 A. So that's what I consider for gross or</p> <p>15 macroscopic degradation. There are papers in the</p> <p>16 literature that cite to SEM, which is electron</p> <p>17 microscopy showing microscopic cracking, and so</p> <p>18 people think of it both grossly and</p> <p>19 microscopically.</p> <p>20 Q. And is it your expert opinion that</p> <p>21 there's no evidence of degradation grossly?</p> <p>22 A. To the patients that I've operated on</p> <p>23 for, say, recurrent incontinence or for other</p> <p>24 indications, I haven't seen gross evidence of</p> <p>25 degradation on my reoperations.</p>

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<p>1 Q. So is it fair to say that your opinion</p> <p>2 that there is no degradation associated with</p> <p>3 polypropylene is limited to grossly?</p> <p>4 A. In my own clinical practice, yes,</p> <p>5 because I have not looked at any of these specimens</p> <p>6 personally under electron microscopy of explants</p> <p>7 that I've performed, but I am familiar with</p> <p>8 Dr. Clave's article and Dr. Costello's article and</p> <p>9 other articles that reference degradation, so I</p> <p>10 have read those articles as part of my practice, in</p> <p>11 journal clubs, et cetera. I've seen those articles</p> <p>12 be brought up at meetings. Recently I had attended</p> <p>13 a meeting of IUGA, International Urogynecologic</p> <p>14 Association, I saw Dr. Ostergard present what he</p> <p>15 considered evidence of degradation at this mock</p> <p>16 trial that occurred at the IUGA meeting.</p> <p>17 Q. A mock trial occurred?</p> <p>18 A. A mock trial, yes. And so --</p> <p>19 Q. Who was the lawyer?</p> <p>20 A. I think Ostergard was the expert and the</p> <p>21 attorney. So nonetheless, there's articles that</p> <p>22 I'm familiar with and I am confident in my opinions</p> <p>23 that degradation does not occur with polypropylene</p> <p>24 mesh, either microscopic or macroscopic.</p> <p>25 Q. Okay. So let's talk about the -- I</p>	<p>1 Go ahead.</p> <p>2 A. And also my review of the Clave paper</p> <p>3 and the Costello paper. And there's other papers</p> <p>4 like that that are more editorials on these two</p> <p>5 papers. So I didn't cite them separately, but</p> <p>6 Dr. Ostergard has written commentary on the Clave</p> <p>7 paper. Howard Goldman has written commentary on</p> <p>8 the Costello paper and the Clave paper. So I feel</p> <p>9 comfortable with my opinions based on reviewing the</p> <p>10 figures in those papers and the examples of the</p> <p>11 electron microscopy, and then my own clinical</p> <p>12 experience and my review of the medical literature.</p> <p>13 Q. Okay. So let's talk about microscopic</p> <p>14 degradation, okay?</p> <p>15 A. Yes.</p> <p>16 Q. What do you rely upon for your opinion</p> <p>17 that polypropylene mesh as used in Ethicon's</p> <p>18 devices does not degrade at the microscopic level?</p> <p>19 A. What do I rely on?</p> <p>20 Q. Yes.</p> <p>21 A. Well, I believe, like you would see,</p> <p>22 say, for instance, a bacterial infection, so though</p> <p>23 we don't see the bacteria and we don't see the</p> <p>24 macrophages, we see the effects that they cause,</p> <p>25 like purulence or pus. If you were having</p>
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<p>1 think we've concluded that you believe -- it's your</p> <p>2 expert opinion that degradation of polypropylene</p> <p>3 mesh does not occur macroscopically, correct?</p> <p>4 A. Correct.</p> <p>5 Q. And that is based on your personal</p> <p>6 clinical experience; is that correct?</p> <p>7 A. My own experience, that of others, and</p> <p>8 that's what's reported in the medical literature,</p> <p>9 in the Cochrane reviews, the systematic reviews by</p> <p>10 Schimpff and by others over 20 years of TVT</p> <p>11 implants. I believe that we would have more</p> <p>12 evidence that would exist of degradation if it</p> <p>13 truly, in fact, did exist when you consider the</p> <p>14 large number of patients that have been implanted</p> <p>15 over the last 20 years.</p> <p>16 Q. So let me test that. I want to make</p> <p>17 sure I understand all the bases for your opinion.</p> <p>18 So your opinion is that you do not believe</p> <p>19 that polypropylene mesh, as used in the Ethicon</p> <p>20 devices, degrades over time when it's in the body.</p> <p>21 And your support for that is your own personal</p> <p>22 practice, and also the systematic reviews, such as</p> <p>23 Cochrane. Anything else.</p> <p>24 MS. SCHMID: Objection; misstates prior</p> <p>25 testimony.</p>	<p>1 microscopic degradation, you would expect to have</p> <p>2 some consequences of that, for instance, like free</p> <p>3 radicals, peroxides and other things being released</p> <p>4 into your system, and there's no evidence to</p> <p>5 support that. So when people look at peroxide</p> <p>6 levels and other toxic metabolites that would</p> <p>7 result from degradation or from oxidation, there's</p> <p>8 nothing to report that in any of the medical</p> <p>9 literature. I've never witnessed that in any of my</p> <p>10 patients. If microscopic degradation continued to</p> <p>11 exist, you'd expect to eventually see gross</p> <p>12 evidence of that.</p> <p>13 So there's a lot of things that we can't see</p> <p>14 on the microscopic level because it's hard to</p> <p>15 detect, but once it reaches the gross level, you</p> <p>16 should be able to see that. And you should be able</p> <p>17 to understand that it began at a microscopic level,</p> <p>18 and now you're just seeing the gross evidence of</p> <p>19 that.</p> <p>20 So I think I could infer from my gross</p> <p>21 observations of what's happening microscopically</p> <p>22 and then based on the reports and these articles</p> <p>23 that I've reviewed. I just don't see the evidence.</p> <p>24 Q. So you understand that the reports that</p> <p>25 you cite, Clave and Costello and others, actually</p>

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<p>1 using SEM demonstrate degradation, correct?</p> <p>2 MS. SCHMID: Objection; foundation.</p> <p>3 A. I believe that's what they report in</p> <p>4 their conclusions, but I have problems with their</p> <p>5 methods. And I think that their products in their</p> <p>6 papers include Bard products. They include</p> <p>7 heavyweight meshes. They include patients that</p> <p>8 have had multiple meshes inserted. The Costello</p> <p>9 paper's about hernia literature. It doesn't even</p> <p>10 pertain to transvaginal mesh explants.</p> <p>11 The Clave paper takes about six different</p> <p>12 subgroups and lumps them all into one big group and</p> <p>13 then asks you to make conclusions. So they have</p> <p>14 some patients in that study that didn't even have</p> <p>15 polypropylene inserted; they had polyester and</p> <p>16 other products. And so it's very difficult to</p> <p>17 understand their conclusions.</p> <p>18 And, to me, it almost seems like an</p> <p>19 intentional attempt at confusing the reader when</p> <p>20 you have so many products and then you draw</p> <p>21 conclusions based on all of these products in their</p> <p>22 summary statements. So I don't believe that the</p> <p>23 evidence exists in those papers.</p> <p>24 Q. And if a paper were published that</p> <p>25 solved some of those concerns of yours about the</p>	<p>1 report.</p> <p>2 Q. Or Dr. Klosterhalfen?</p> <p>3 A. Similarly. I think he's on some of the</p> <p>4 same publications with Dr. Klinge supporting a PVDF</p> <p>5 product, which I believe they endorse over</p> <p>6 polypropylene, but I don't believe I reviewed their</p> <p>7 expert reports.</p> <p>8 Q. Or Dr. Jordi Muehl?</p> <p>9 A. I am not familiar with that doctor's</p> <p>10 publications or expert opinions.</p> <p>11 Q. And you've never yourself performed any</p> <p>12 analysis of explanted meshes to determine whether</p> <p>13 or not there was degradation, have you?</p> <p>14 A. I've looked at my explants grossly.</p> <p>15 I've taken measurements. The pathology department</p> <p>16 at university takes pictures. They preserve the</p> <p>17 specimens at the request of the plaintiffs'</p> <p>18 attorneys, but I have not personally done any SEM</p> <p>19 or chemical analysis or FTIR analysis of the</p> <p>20 meshes.</p> <p>21 Q. And you know, or I think you've</p> <p>22 testified before, that your pathology department</p> <p>23 doesn't even look for degradation, so you wouldn't</p> <p>24 know if it exists or not on your explanted meshes,</p> <p>25 correct?</p>
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<p>1 methods, is that something that you'd want to</p> <p>2 review and include in your expert opinion?</p> <p>3 A. I'd be happy to review the paper if I</p> <p>4 thought that the paper was valuable or something</p> <p>5 that I should include in my report, I would, but I</p> <p>6 can't say that without looking at the particular</p> <p>7 paper.</p> <p>8 Q. Now, you have a list of depositions at</p> <p>9 the end of your reliance materials, and I noted</p> <p>10 that -- I'm sorry, a list of expert reports that</p> <p>11 you reviewed at the end of your reliance materials,</p> <p>12 correct?</p> <p>13 A. Yeah, there is a list of a number of</p> <p>14 expert reports.</p> <p>15 Q. And I notice that, for example,</p> <p>16 plaintiffs' experts who are the pathologists that</p> <p>17 discuss degradation, you didn't review any of those</p> <p>18 expert reports, did you?</p> <p>19 A. Not in very much detail, so for that</p> <p>20 reason, I didn't put them on my reliance list.</p> <p>21 Q. You've never reviewed any deposition</p> <p>22 testimony or expert reports of Dr. Klinge, for</p> <p>23 example?</p> <p>24 A. Yeah, I've read a number of his papers,</p> <p>25 but I don't believe I've ever read his expert</p>	<p>1 A. They do report if there would be gross</p> <p>2 degradation, so on their gross report, they'll make</p> <p>3 measurements, and they'll provide information on</p> <p>4 what the explant looked like. So if there was</p> <p>5 cracking or breaking or fragmentation, I would</p> <p>6 expect to see that in the report.</p> <p>7 Q. Have you ever reviewed any of</p> <p>8 Dr. Iakovlev's articles?</p> <p>9 A. I am familiar with the name, but I can't</p> <p>10 cite to their reference or his expert reports, but</p> <p>11 I know that he's either a materials scientist or a</p> <p>12 pathologist.</p> <p>13 Q. Would you defer to his analysis of the</p> <p>14 explanted meshes when he's discussing the</p> <p>15 microscopic evidence of degradation?</p> <p>16 MS. SCHMID: Objection; foundation.</p> <p>17 A. No, I would not.</p> <p>18 Q. (By Mr. Zonies) Do you think you're</p> <p>19 better qualified than he?</p> <p>20 A. No, but he has been hired by plaintiffs'</p> <p>21 experts to be an expert. Similarly, Ethicon has</p> <p>22 pathologists and materials scientists that are</p> <p>23 their experts, so in my testimony, I'm prepared to</p> <p>24 make comments on what I see clinically. I'm</p> <p>25 prepared to comment on these papers that I had</p>

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<p>1 mentioned. I'm prepared to comment what systematic</p> <p>2 reviews report, but I'm not going to make comments</p> <p>3 or opinions on SEMs or how they're performed or my</p> <p>4 own personal experience in performing SEMs.</p> <p>5 Q. So I notice Dr. Iakovlev's -- none of</p> <p>6 his papers are on your reliance materials, correct?</p> <p>7 A. Correct.</p> <p>8 Q. I'm going to hand you what's been marked</p> <p>9 as Exhibit 9, a paper from Dr. Iakovlev entitled</p> <p>10 "Degradation of polypropylene in vivo: A</p> <p>11 microscopic analysis of meshes explanted from</p> <p>12 patients."</p> <p>13 (Exhibit 9 was marked for identification.)</p> <p>14 Q. (By Mr. Zonies) You've never seen this</p> <p>15 article before, correct?</p> <p>16 A. I don't believe so.</p> <p>17 Q. And we can start, Doctor, if you'd like,</p> <p>18 by looking on page 11 where the authors actually do</p> <p>19 a disclosure. You asked for evidence that anyone</p> <p>20 would do this, and I'll turn your attention to page</p> <p>21 11. Are you with me?</p> <p>22 A. Yes.</p> <p>23 Q. Do you see where it says</p> <p>24 "Acknowledgements"?</p> <p>25 A. I do.</p>	<p>1 "Moreover, I have never read or seen a single</p> <p>2 peer-reviewed published article or seen any cited</p> <p>3 by plaintiffs' experts that showed any clinical</p> <p>4 effect of degradation."</p> <p>5 If such an article existed, you'd like to</p> <p>6 see that, right?</p> <p>7 A. I would read that article, sure.</p> <p>8 Q. Okay. So I've handed you Exhibit 9,</p> <p>9 Doctor. And if you turn to Dr. Iakovlev's article</p> <p>10 entitled "Degradation of polypropylene in vivo" and</p> <p>11 you look at the abstract on the first page -- are</p> <p>12 you with me?</p> <p>13 A. Yes.</p> <p>14 Q. And he says in the second column here,</p> <p>15 "Several features indicated that the degradation</p> <p>16 layer formed in vivo: inflammatory cells trapped</p> <p>17 within fissures, melting caused by cautery of</p> <p>18 excision surgery, and gradual but progressive</p> <p>19 growth of the degradation layer while in the body";</p> <p>20 do you see that?</p> <p>21 A. I do.</p> <p>22 Q. Do you have any evidence whatsoever that</p> <p>23 this is incorrect, wrong, unreliable or in any way</p> <p>24 wrong?</p> <p>25 MS. SCHMID: Objection; form, foundation.</p>
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<p>1 Q. And can you read that sentence out loud</p> <p>2 to me?</p> <p>3 A. It says, "Authors provide expert</p> <p>4 opinions for medical-legal cases on matters related</p> <p>5 to polypropylene mesh."</p> <p>6 Q. Is that something you think you should</p> <p>7 now do when you publish articles, is disclose your</p> <p>8 conflict?</p> <p>9 A. I think it would, again, depend on the</p> <p>10 standards of the journal. So I've never published</p> <p>11 in this journal, Biomaterials and Research. It's</p> <p>12 not a journal that I subscribe to or read. This</p> <p>13 looks like this is an engineering journal, so their</p> <p>14 requirements may be different than what's in the</p> <p>15 medical journals.</p> <p>16 Q. On page 27 of your report, you say, and</p> <p>17 I'm quoting, "Moreover" --</p> <p>18 MS. SCHMID: I'm sorry. Let me just -- one</p> <p>19 moment, please.</p> <p>20 MR. ZONIES: Sure. Page 27.</p> <p>21 MS. SCHMID: Thank you.</p> <p>22 Q. (By Mr. Zonies) Let me know when you're</p> <p>23 there, Doc.</p> <p>24 A. Yes.</p> <p>25 Q. On page 27, the last sentence,</p>	<p>1 This witness was just handed a 12-page paper that</p> <p>2 he's already testified he's never seen before,</p> <p>3 so . . .</p> <p>4 Q. (By Mr. Zonies) Well, the next sentence</p> <p>5 says, Doctor, "Cracking of the degraded material</p> <p>6 contributed to a clinically important mesh</p> <p>7 stiffening and deformation." Is that what they</p> <p>8 concluded there?</p> <p>9 MS. SCHMID: Same objections.</p> <p>10 A. I can't comment on what their</p> <p>11 conclusions are. I can immediately point out that</p> <p>12 it says "melting caused by cautery of the excision</p> <p>13 surgery." So what that suggests to me is that the</p> <p>14 excision surgery caused cracking and fissures and</p> <p>15 melting of the mesh, so I'm not sure why that would</p> <p>16 be evidence of degradation if your cautery injured</p> <p>17 the mesh.</p> <p>18 Q. (By Mr. Zonies) The conclusion, Doctor,</p> <p>19 is "Cracking of the degraded material indicated a</p> <p>20 contribution to clinically important mesh</p> <p>21 stiffening and deformation."</p> <p>22 And my question is, if that's what this</p> <p>23 paper demonstrates, wouldn't that be pretty</p> <p>24 important for you to know before you gave your</p> <p>25 expert opinion in this case?</p>

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<p>1 MS. SCHMID: Objection; foundation, assuming</p> <p>2 facts not in evidence.</p> <p>3 A. My answer to that would be no.</p> <p>4 Q. (By Mr. Zonies) You wouldn't want to</p> <p>5 read this before giving your expert opinion?</p> <p>6 A. I believe I've read enough articles on</p> <p>7 degradation. I've read enough systematic reviews</p> <p>8 and meta-analyses to feel confident in my opinions.</p> <p>9 Q. Can you tell me one systematic review or</p> <p>10 meta-analysis that discusses the degradation of</p> <p>11 polypropylene?</p> <p>12 A. I think the systematic reviews and</p> <p>13 meta-analyses do a good job in reviewing and</p> <p>14 recording and tabulating complications. So if</p> <p>15 you're considering degradation a complication, I</p> <p>16 would expect to see that in the systematic review.</p> <p>17 Q. You believe that the systematic review</p> <p>18 of -- for example, the Cochrane review, do you</p> <p>19 believe that was a review of whether or not</p> <p>20 polypropylene mesh degrades?</p> <p>21 A. It's a review of the outcomes of</p> <p>22 polypropylene mesh. And if degradation is a</p> <p>23 potential outcome that you're citing, then I would</p> <p>24 expect to see that in the review, yes.</p> <p>25 Q. If you turn to page 4 -- well, you've</p>	<p>1 bacterial -- bacteria and meshes, correct?</p> <p>2 A. Correct.</p> <p>3 Q. Can you describe that work for me,</p> <p>4 please?</p> <p>5 A. We had a paper at the American Urologic</p> <p>6 Association meeting, in the abstract and poster</p> <p>7 form, looking at bacterial analysis of explanted</p> <p>8 meshes. We looked at a number of groups, including</p> <p>9 patients that had what we considered painful mesh,</p> <p>10 which is an IUGA Type I, pain without any exposure</p> <p>11 or perforation. Then we looked at patients that</p> <p>12 had IUGA II and III as a group, that would be</p> <p>13 people that had exposed mesh, also known as</p> <p>14 extruded mesh, and then another group of patients</p> <p>15 that had mesh perforated into the lower urinary</p> <p>16 tract, that would be IUGA IV. And then we also had</p> <p>17 what we would consider our control group which were</p> <p>18 people that were having revisions more for</p> <p>19 recurrent incontinence or for other indications</p> <p>20 unrelated to pain, exposure or perforation.</p> <p>21 Q. And what was the conclusion of your</p> <p>22 study?</p> <p>23 A. I would have to look at the study again,</p> <p>24 if you want to read the exact conclusion. We never</p> <p>25 published the study. The paper received a lot of</p>
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<p>1 never read this study before; is that right,</p> <p>2 Doctor?</p> <p>3 A. That's correct.</p> <p>4 Q. All right. So I'm not going to take you</p> <p>5 through this study and point out things that you</p> <p>6 haven't read. I do think that that wouldn't be a</p> <p>7 good use of our time here.</p> <p>8 Would you agree, Doctor, that if</p> <p>9 polypropylene mesh degraded even at the microscopic</p> <p>10 level, that it would increase the potential for</p> <p>11 bacterial colonization in the mesh?</p> <p>12 MS. SCHMID: Objection; foundation, vague,</p> <p>13 improper hypothetical.</p> <p>14 A. I'm uncertain on what the implications</p> <p>15 of the cracking would be.</p> <p>16 Q. (By Mr. Zonies) You don't know one way</p> <p>17 or the other?</p> <p>18 A. I don't know one way or another. I</p> <p>19 haven't read any reports on what the implications</p> <p>20 of cracking would be, or I'm not aware of any</p> <p>21 papers that show bacteria inside these cracks,</p> <p>22 but . . .</p> <p>23 Q. And again, you've never read this paper?</p> <p>24 A. I have not read this paper.</p> <p>25 Q. And you've actually done some work on</p>	<p>1 criticism because of the methods, and so it wasn't</p> <p>2 something that we pursued.</p> <p>3 Q. Wasn't one of the conclusions that in 80</p> <p>4 percent of the explanted meshes where it was</p> <p>5 explanted for pain, exposure or perforation, that</p> <p>6 there was bacterial pathogens?</p> <p>7 MS. SCHMID: Objection; form.</p> <p>8 A. I would have to look at the abstract</p> <p>9 again. The goal of the paper was to try to help</p> <p>10 identify, you know, why patients might have pain</p> <p>11 unrelated to exposure or perforation.</p> <p>12 Q. (By Mr. Zonies) And you've described</p> <p>13 that before. You've expressed that you have a</p> <p>14 particular interest or a theory that you were</p> <p>15 working on related to infection, mesh infections</p> <p>16 and pain; is that right?</p> <p>17 A. I think that overstates what the work</p> <p>18 was. Dr. Shaw, who was my fellow, was curious</p> <p>19 about this, and it was something that we had worked</p> <p>20 on together.</p> <p>21 Q. I'll go ahead and mark as Exhibit 10</p> <p>22 your abstract.</p> <p>23 (Exhibit 10 was marked for identification.)</p> <p>24 Q. (By Mr. Zonies) Is Exhibit 10, entitled</p> <p>25 "Bacteriological Analysis of Explanted Transvaginal</p>

<p style="text-align: right;">Page 82</p> <p>1 Meshes," the abstract we were just talking about?</p> <p>2 A. Yes.</p> <p>3 Q. And your conclusion that you reached in</p> <p>4 this abstract is, "Colonization of vaginally</p> <p>5 implanted mesh occurs frequently, and bacterial</p> <p>6 infection may account for pelvic pain in patients</p> <p>7 with painful mesh and dyspareunia." Is that what</p> <p>8 you concluded in this abstract?</p> <p>9 A. That's what we concluded in the</p> <p>10 abstract.</p> <p>11 Q. And you also, in your chart, you</p> <p>12 actually reflect that in those patients where what</p> <p>13 you called your control patients, that none of them</p> <p>14 had pathogenic organisms; is that correct?</p> <p>15 A. That's correct, but we only had four</p> <p>16 patients in that group, so there's no P values in</p> <p>17 any of these charts. We couldn't reach statistical</p> <p>18 significance because the numbers were so small in</p> <p>19 this study.</p> <p>20 Q. And you also find there that 83 percent</p> <p>21 of those women who had a urinary tract erosion had</p> <p>22 pathogenic organisms, correct?</p> <p>23 A. Correct.</p> <p>24 Q. And your conclusion right above that was</p> <p>25 that the bacterial infection that you found in</p>	<p style="text-align: right;">Page 84</p> <p>1 A. I don't have it collected. You know, I</p> <p>2 mentioned in this group of 50 patients, we had that</p> <p>3 data available to us in 2013. But since that time,</p> <p>4 I'm only looking at it on a case-by-case as I get</p> <p>5 reports from my microbiology lab, but I haven't</p> <p>6 tabulated it since 2013.</p> <p>7 Q. So we have no way to see what your</p> <p>8 current data shows?</p> <p>9 A. We don't.</p> <p>10 MR. ZONIES: Why don't we go ahead and take</p> <p>11 a break.</p> <p>12 MS. SCHMID: Sure.</p> <p>13 (Recess taken from 3:14 p.m. until</p> <p>14 3:38 p.m.)</p> <p>15 Q. (By Mr. Zonies) Doctor, we're back from</p> <p>16 a break. Are you ready to go?</p> <p>17 A. Yes, I'm ready to go.</p> <p>18 (Exhibit 11 was marked for identification.)</p> <p>19 Q. I'm going to hand you what's been marked</p> <p>20 as Exhibit 11. Exhibit 11 is a study by Tzartzeva</p> <p>21 entitled "In-Depth Nano-Investigation of Vaginal</p> <p>22 Mesh and Tape Fiber Explants in Women."</p> <p>23 I notice this abstract was not on your</p> <p>24 reliance materials, correct?</p> <p>25 A. Correct.</p>
<p style="text-align: right;">Page 83</p> <p>1 these explanted meshes may account for pelvic pain</p> <p>2 in patients with painful mesh and dyspareunia,</p> <p>3 correct?</p> <p>4 A. And what we said is it may account. It</p> <p>5 didn't say it did account. What was probably most</p> <p>6 surprising, if you look at our vaginal erosion</p> <p>7 patients, I think that there's a thought that a</p> <p>8 hundred percent of those patients have mesh that's</p> <p>9 colonized with bacteria and only 20 percent of the</p> <p>10 patients had pathologic organisms in that exposed</p> <p>11 mesh, so 80 percent did not. And so this was sort</p> <p>12 of a pilot study. The results weren't really what</p> <p>13 we expected. And so we're still working through</p> <p>14 how to interpret this data.</p> <p>15 Q. So tell me how you're doing that work.</p> <p>16 A. We continue to send culture information</p> <p>17 on our explants for microbiologic analysis both for</p> <p>18 aerobic and anaerobic cultures. We send for</p> <p>19 pathological analysis, as we mentioned earlier. I</p> <p>20 haven't collected the data in an organized form</p> <p>21 since this abstract, but if I get that report back</p> <p>22 from the pathology lab, and I'll have to sign off</p> <p>23 on all those reports, on all the outcomes, so I</p> <p>24 look at those reports as they come to me.</p> <p>25 Q. So you have that data available to you?</p>	<p style="text-align: right;">Page 85</p> <p>1 Q. You've never reviewed that paper before</p> <p>2 either, have you?</p> <p>3 A. I don't believe so.</p> <p>4 Q. In fact, Doctor, these studies that I</p> <p>5 think you mentioned, studies that do these SEM</p> <p>6 images from explant samples, you don't find those</p> <p>7 studies particularly informative; is that right?</p> <p>8 A. That's not what I stated. I did cite to</p> <p>9 the Clave paper which has plenty of SEM samples in</p> <p>10 it.</p> <p>11 Q. And do you have any -- if you see in the</p> <p>12 middle of this Exhibit 11 that I just handed to you</p> <p>13 in the "Results" section -- are you with me? It's</p> <p>14 the sentence that starts with "Comparison."</p> <p>15 A. Yes.</p> <p>16 Q. "Comparison of the SEM images from</p> <p>17 explant samples with controlled pristine samples</p> <p>18 revealed extensive surface degradation with</p> <p>19 formation of microscopic surface cracks of several</p> <p>20 microns in length and depth."</p> <p>21 Is that what this study found in the</p> <p>22 results?</p> <p>23 A. That's what you just read to me. That's</p> <p>24 what's written here. I can't comment beyond that.</p> <p>25 I'm not familiar with this study, and I don't know</p>

<p style="text-align: right;">Page 86</p> <p>1 what the pristine control group is comprised of. I</p> <p>2 don't even know what the explant is, what kind of</p> <p>3 polypropylene mesh explant this was.</p> <p>4 Q. And if you flip it over on the back of</p> <p>5 it, it actually shows you that this is comparing a</p> <p>6 Gynemesh, and Figure 3 is TVT mesh, correct?</p> <p>7 MS. SCHMID: Objection; foundation.</p> <p>8 A. TVT and Sparc.</p> <p>9 Q. (By Mr. Zonies) Right. And it says</p> <p>10 "TVT" -- or pictures A and B comparing the</p> <p>11 explanted mesh in A to B, the pristine mesh. Do</p> <p>12 you -- just grossly looking at those pictures, do</p> <p>13 you notice a difference?</p> <p>14 MS. SCHMID: Objection; foundation, scope.</p> <p>15 A. Well, these are microscopic images, so</p> <p>16 it's hard for me to comment grossly on a</p> <p>17 microscopic image, but I'm not going to comment</p> <p>18 because I just don't know enough about that</p> <p>19 photograph to make an intelligent comment about it.</p> <p>20 Q. (By Mr. Zonies) And that's because</p> <p>21 you've never reviewed that paper, correct?</p> <p>22 A. Correct.</p> <p>23 Q. One of the papers you did review in</p> <p>24 your -- I believe is on your reliance, is a paper</p> <p>25 by Moalli. Do you recall that paper?</p>	<p style="text-align: right;">Page 88</p> <p>1 effects of stretching and cycling of the meshes.</p> <p>2 But I am happy to comment on this paper. I am</p> <p>3 familiar with this paper. It is in my reliance</p> <p>4 list.</p> <p>5 Q. You mentioned cycling. Can you explain</p> <p>6 to me what you meant when you said that?</p> <p>7 A. Cycle, at least in terms of</p> <p>8 biomechanical terms, is stretching the mesh and</p> <p>9 then relaxing the mesh, stretching the mesh then</p> <p>10 relaxing the mesh. So if you look at Figure 1, it</p> <p>11 shows how that's done in Dr. Moalli's laboratory.</p> <p>12 And then if you look at Figure 2, it shows some of</p> <p>13 the meshes after they've undergone cycling. And</p> <p>14 then in Figure 3 and especially Figure 5, Figure 5</p> <p>15 shows probably the best example of cycling of a</p> <p>16 mesh ex vivo.</p> <p>17 Q. And do you believe that in vivo mesh</p> <p>18 is -- goes through cycles?</p> <p>19 A. Yeah, I think that's one of the ideal</p> <p>20 characteristics of the TVT mesh, is that it bends,</p> <p>21 but it doesn't break, and so you want a mesh that's</p> <p>22 going to be elongated or be elastic when undergoing</p> <p>23 effort stresses.</p> <p>24 Q. And when you said Figure 5 showing the</p> <p>25 cycling, do you have any reason to dispute the</p>
<p style="text-align: right;">Page 87</p> <p>1 A. I've reviewed a number of her papers.</p> <p>2 (Exhibit 12 was marked for identification.)</p> <p>3 Q. (By Mr. Zonies) And I'm going to hand</p> <p>4 you what's been marked as Exhibit 12. Do you have</p> <p>5 any criticisms of Exhibit 12, the Moalli paper</p> <p>6 entitled "Tensile properties of five commonly used</p> <p>7 mid-urethral slings relative to the TVT"?</p> <p>8 A. The paper is well done, for the most</p> <p>9 part, but there are some limitations of the paper.</p> <p>10 I wouldn't necessarily call them criticisms, but</p> <p>11 there are limitations to studies that are done ex</p> <p>12 vivo, what we call a dry lab, you know, on a</p> <p>13 stretch rack. I don't know if these studies are</p> <p>14 necessarily representative of what occurs in vivo.</p> <p>15 Also, I have concerns when the entire 45</p> <p>16 centimeters of the mesh is not tested. Oftentimes,</p> <p>17 these meshes, for instance in this study, were cut</p> <p>18 in 8-centimeter samples, so how a mesh that's 8</p> <p>19 centimeters behaves, you know, doesn't necessarily</p> <p>20 represent the 45-centimeter mesh that is TVT or</p> <p>21 maybe what ordinarily ends up in the body, probably</p> <p>22 around 20 to 25 centimeters. So those are some</p> <p>23 obvious limitations.</p> <p>24 Also, they don't account for tissue ingrowth</p> <p>25 and how tissue ingrowth may resist some of the</p>	<p style="text-align: right;">Page 89</p> <p>1 conclusions that are reached in Figure 5?</p> <p>2 A. It says, "With each cycle, the peaks and</p> <p>3 valleys of the curve move progressively to the</p> <p>4 right of the graft indicating permanent</p> <p>5 (nonreversible) elongation." I agree with that</p> <p>6 conclusion with respect to the dry-lab testing.</p> <p>7 And I think that that's something that Dr. Moalli's</p> <p>8 reported on. Whether or not this is what occurs in</p> <p>9 vivo after tissue ingrowth, if they're speculating</p> <p>10 that that occurs, then I think that would be an</p> <p>11 overreach on their conclusion.</p> <p>12 Q. Do you believe that a 20 percent</p> <p>13 elongation is an approximation of how meshes react</p> <p>14 that you have implanted?</p> <p>15 MS. SCHMID: Objection; foundation, scope.</p> <p>16 Go ahead.</p> <p>17 A. I think typical elongations that I'm</p> <p>18 more familiar with, for instance what's reported in</p> <p>19 other papers, is around 3 to 5 percent, not the 20</p> <p>20 to 60 percent relative elongation. So elongation's</p> <p>21 going to depend a lot on how many cycles. It's</p> <p>22 going to depend on tissue ingrowth. It's going to</p> <p>23 depend on what the load is. So when you're looking</p> <p>24 here at 6 newtons, 6 newtons is, you know, about 12</p> <p>25 times the typical load that would occur in the</p>

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<p>1 human body. If you look at a cough, for instance, 2 that's about .5 newtons. So 6 newtons is a pretty 3 heavy load.</p> <p>4 When you look at the ideal designs of 5 meshes, ordinarily, meshes are designed to 6 withstand, you know, ideally 2 newtons. I think 6 7 newtons is not a physiologic load. So I'm not sure 8 why they felt the need to apply that much force.</p> <p>9 And in the second curve, they did as much as 10 14 newtons, which would be 28 times, you know, what 11 you would see with normal everyday activity.</p> <p>12 Q. (By Mr. Zonies) Do you see on -- just 13 above the graphs you're looking at in Figure 5, the 14 last sentence in the first column says, "The 15 permanent elongation after C1, 10 cycles between .5 16 and 5 newtons, or roughly .1 and 1.1 pounds, of the 17 Gynecare mesh was different from that of all the 18 other samples tested. Gynecare samples permanently 19 elongated by 17.5 plus or minus 4.2 percent 20 indicating that although very little force applied, 21 there is irreversible deformation of the TVT." Do 22 you agree or disagree with that conclusion?</p> <p>23 MS. SCHMID: Objection; foundation.</p> <p>24 A. Gynecare provides samples, so these are 25 the 8-centimeter samples, not 45 centimeters. So</p>	<p>1 A. I thought I heard you say "very low 2 loads." I'm not sure where it says that in that 3 statement.</p> <p>4 Q. (By Mr. Zonies) It says, "very little 5 force applied"; do you see that?</p> <p>6 A. I do see that, yes.</p> <p>7 Q. So with very little force applied, there 8 is irreversible deformation of the TVT. Do you 9 agree or disagree with that statement?</p> <p>10 MS. SCHMID: Objection; form, foundation.</p> <p>11 A. I disagree with that statement.</p> <p>12 Q. (By Mr. Zonies) Based upon what?</p> <p>13 A. Based upon other papers that would not 14 cite that this is a very low load. This is an 15 everyday physiologic load, so I disagree that 16 that's a very low load. There's a paper by 17 Dr. Lynn, and there's other papers that -- the 18 Dietz paper, for instance, that go over loads and 19 the stress-strain curve. And I think the .5 20 newtons to 5 newtons is something that I see in the 21 Dietz data and other papers, so I would disagree 22 that .5 to 5 newtons is very little force. It 23 might be in the grand scheme of things, but these 24 are the forces that occur in the human body, so I 25 think that they're not very low forces with respect</p>
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<p>1 you got an 8-centimeter sample that's permanently 2 elongated by 42 percent, which is basically the 3 same as what the AMS mesh did, "and the tanged, 4 nonheated portion of Boston Sci, 40 percent, Bard 5 samples, again, displayed significantly less 6 permanent elongation followed by Caldera and 7 Mentor."</p> <p>8 (Reviewing document.) So what the 9 conclusion is is that the less-stiff meshes -- I'm 10 sorry, the stiffer meshes are not going to elongate 11 as much. I would agree with that conclusion. If 12 the mesh is very stiff, you're not going to have as 13 much elongation.</p> <p>14 Q. And I'm particularly focused on the 15 sentence, or the sentence that I read, which is 16 concerning the very low load. So "The permanent 17 elongation after C1, 10 cycles between .5 and 5 18 newtons, the Gynecare mesh was different from that 19 of all the other samples tested. Gynecare samples 20 permanently elongated by 17.5, plus or minus 4.2 21 percent, indicating that although very little force 22 applied, there is irreversible deformation of the 23 TVT." Do you agree or disagree with that 24 statement?</p> <p>25 MS. SCHMID: Objection; form, foundation.</p>	<p>1 to what the body's used to observing.</p> <p>2 Q. So the .5 to 5 newtons are the forces 3 that you would see in the human body?</p> <p>4 A. That's correct.</p> <p>5 Q. Those are the forces you would expect to 6 see on a transvaginal mesh such as TVT-R, correct?</p> <p>7 A. Well, it's a big range. I mean, you're 8 talking about a tenfold range. So what I see 9 typically is, you know, somewhere between .1 and .5 10 newtons. I would consider 5 newtons a huge amount 11 of force. It says "very little force." 5 newtons 12 is not very little force. 5 newtons is a very big 13 force.</p> <p>14 Q. You said, what you see. What do you 15 mean when you say, from what you see, .1 and .5 16 newtons is what's typical?</p> <p>17 A. That's based on my review of what's 18 reported in other papers and in the medical 19 literature. So I would disagree that 5 newtons is 20 little force. 5 newtons is a big force.</p> <p>21 Q. But you would agree that .5 to 5 newtons 22 is what one would experience in the human body, 23 correct?</p> <p>24 A. .5, yes. 5, no. I'm not aware of what 25 5 -- what would constitute 5 newtons.</p>

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<p>1 Q. Okay. And but --</p> <p>2 A. So what I mentioned earlier is .5 to</p> <p>3 maybe as much as 2 newtons, that's how the meshes</p> <p>4 are designed. Ideally, the meshes are designed --</p> <p>5 if you look at the width of the urethra, it's 1</p> <p>6 centimeter. And you can look at the width of the</p> <p>7 mesh being 1 centimeter, so you have to also</p> <p>8 account for the forces being distributed over that</p> <p>9 1 centimeter. And when you take a mesh that can,</p> <p>10 say, withstand 8 newtons, and then you divide it by</p> <p>11 the 1-centimeter width, it's typically designed to</p> <p>12 withstand around 2 newtons. So I'm not surprised</p> <p>13 that they permanently elongated it when they</p> <p>14 stretched it to 5 newtons, which is much more than</p> <p>15 what the mesh is really designed to withstand.</p> <p>16 So, you know, that's one of the limitations</p> <p>17 in dry-lab testing. But what I can say, if you go</p> <p>18 to the other figures, for instance, like Figure 3,</p> <p>19 you can see that the Gynecare mesh behaves very</p> <p>20 similar to the other meshes, especially the AMS</p> <p>21 mesh. And, you know, it's a mesh that has very</p> <p>22 little stiffness where when you compare it to some</p> <p>23 of the other products, like the Bard product, for</p> <p>24 instance, it's not nearly as stiff. The Caldera,</p> <p>25 the Mentor product, they had to put out a separate</p>	<p>1 exhibiting some stiffness.</p> <p>2 Q. So on the second page, the last -- on</p> <p>3 the first page of the Moalli study, the last two</p> <p>4 words are "for example"; do you see that?</p> <p>5 A. Page 1?</p> <p>6 Q. Yes.</p> <p>7 A. Yes.</p> <p>8 Q. "For example, one of the primary</p> <p>9 problems in using the TVT is that as a result of</p> <p>10 its low stiffness, the mesh easily deforms when</p> <p>11 tensioning under the urethra. Specifically pulling</p> <p>12 a sling gently results in thinning of the mesh,</p> <p>13 permanent deformation and fraying at the tanged</p> <p>14 edges"; did I read that correctly?</p> <p>15 A. Yes, you did.</p> <p>16 Q. And do you have any reason to disagree</p> <p>17 with that conclusion by Moalli, et al.?</p> <p>18 MS. SCHMID: Objection; form, foundation.</p> <p>19 A. Well, there's no reference to it, number</p> <p>20 one, so this is her thoughts on that. She says</p> <p>21 that it's a primary problem, but she doesn't cite</p> <p>22 what the problem is. I would say it's one of the</p> <p>23 primary advantages of the TVT, not that it's a</p> <p>24 problem, but that's an advantage. That's why it's,</p> <p>25 you know, the most commonly utilized product ever</p>
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<p>1 curve because they're so much stiffer than the</p> <p>2 other five products that are mentioned.</p> <p>3 Q. And what does that mean to you</p> <p>4 clinically, that they're so much stiffer?</p> <p>5 A. Well, there's a balance in surgery that</p> <p>6 you're going to look for when you're designing</p> <p>7 meshes. So you want something that's going to</p> <p>8 bend, but not break. So the fact that the Gynecare</p> <p>9 mesh can elongate underneath the urethra during</p> <p>10 physiologic loads, I feel that's a good thing. So</p> <p>11 as the woman is walking or jumping up and down or</p> <p>12 running, you want the urethra to descend, and you</p> <p>13 want the urethra to be mobile. If the mesh is too</p> <p>14 stiff, then that urethra is not going to move, and</p> <p>15 then you do worry about that causing complications.</p> <p>16 And so you want to have the optimal balance of</p> <p>17 stiffness.</p> <p>18 And if you look at that physiologic range,</p> <p>19 you know, even going up as much as 10 newtons,</p> <p>20 there's a very linear response in terms of the</p> <p>21 elongation. It's not until you get to the</p> <p>22 nonlinear portions of the curve that the mesh</p> <p>23 starts to become stiff. So really up to 10</p> <p>24 newtons, the mesh is not stiff at all. It's once</p> <p>25 it gets beyond 10 newtons that you'll start</p>	<p>1 in the history of stress urinary incontinence</p> <p>2 surgery, more commonly used than any of the</p> <p>3 competitor meshes.</p> <p>4 And I personally have pulled on these</p> <p>5 meshes, and you would have to pull quite hard to</p> <p>6 deform the mesh. So when she says "pulling on the</p> <p>7 sling gently results in thinning," that might occur</p> <p>8 if you take a 45-centimeter mesh and cut it into 8</p> <p>9 centimeters and already start to mechanically alter</p> <p>10 it, but that's not my own personal experience when</p> <p>11 implanting the mesh.</p> <p>12 Also, the mesh has a plastic sheath over it</p> <p>13 which protects it. But there's really no reason to</p> <p>14 pull on the mesh. When you place the mesh, your</p> <p>15 load from the bottom to top approach, it lies flat</p> <p>16 below the midurethra, you put your number -- Hegar</p> <p>17 dilator in there, you take the plastic sheath off,</p> <p>18 and you cut it at the skin. There's no reason to</p> <p>19 be pulling or deforming the mesh.</p> <p>20 So I mean, what she's doing in this paper is</p> <p>21 interesting, and I think it helps sort of compare</p> <p>22 and contrast products, but meshes, in my practice,</p> <p>23 don't deform, so I don't know why we're</p> <p>24 intentionally trying to deform a mesh and then</p> <p>25 measure the biomechanical properties of a deformed</p>

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<p>1 mesh. Why not measure the biomechanical properties</p> <p>2 of a mesh that's not deformed.</p> <p>3 Q. Doctor, do you know what DDSA stands</p> <p>4 for?</p> <p>5 A. DDSA?</p> <p>6 Q. Yes.</p> <p>7 A. Is that in this paper?</p> <p>8 Q. No.</p> <p>9 A. I'm not immediately familiar with that</p> <p>10 DDSA.</p> <p>11 Q. How about DFMEA?</p> <p>12 A. I mean, I could -- it may be related to</p> <p>13 deformation, but I'm not familiar with the</p> <p>14 abbreviations. I'm probably familiar with the</p> <p>15 terminology, but not the abbreviation.</p> <p>16 Q. Have you read any of the design files</p> <p>17 associated with the TVT-Retropubic?</p> <p>18 A. Design files?</p> <p>19 Q. Yes.</p> <p>20 A. I read a number of Dr. Ulmsteen's</p> <p>21 original papers on TVT.</p> <p>22 Q. Have you read any of Ethicon's design</p> <p>23 files on the TVT mesh?</p> <p>24 A. I don't know if that is including</p> <p>25 Ulmsteen's data, but I've read Ulmsteen's original</p>	<p>1 Gor-Tex, a microporous mesh, and then certainly</p> <p>2 silicone products encapsulate, but I have not</p> <p>3 witnessed that with TVT mesh or Type I</p> <p>4 polypropylene mesh.</p> <p>5 Q. What is a pseudocapsule?</p> <p>6 MS. SCHMID: I'm sorry. Can you say that</p> <p>7 again?</p> <p>8 MR. ZONIES: Pseudocapsule,</p> <p>9 p-s-e-u-d-o-c-a-p-s-u-l-e.</p> <p>10 MS. SCHMID: Thank you.</p> <p>11 A. So I think everyone's familiar with the</p> <p>12 term "capsule." When you put the word "pseudo" in</p> <p>13 front of it, it would mean that it kind of looks</p> <p>14 and behaves like a capsule, but anatomically it's</p> <p>15 not a true capsule. So people often use that term</p> <p>16 to describe the capsule around an implant,</p> <p>17 "pseudocapsule." Others would just use the word</p> <p>18 "capsule."</p> <p>19 Q. (By Mr. Zonies) Would others use</p> <p>20 "encapsulated"?</p> <p>21 A. Yeah, I think those words can be used</p> <p>22 interchangeably. So it's referring to some sort of</p> <p>23 capsule.</p> <p>24 Q. In your article in 2013, you wrote that</p> <p>25 you encountered meshes that had pseudocapsule's,</p>
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<p>1 papers, the paper from '95, '98, the personal</p> <p>2 history he wrote about the tape and its</p> <p>3 developments. I'm familiar with the history of the</p> <p>4 mesh, but these design files, it sounds like you're</p> <p>5 referencing to a particular document that I'm not</p> <p>6 familiar with.</p> <p>7 Q. Okay. What is a mesh fragment?</p> <p>8 A. A mesh fragment I believe would be</p> <p>9 referring to a portion of the mesh that's not</p> <p>10 contiguous with the body of the mesh.</p> <p>11 Q. And is it important to ensure that there</p> <p>12 are not mesh fragments in the vaginal space?</p> <p>13 MS. SCHMID: Objection; form, vague.</p> <p>14 A. I think whether the mesh is contiguous</p> <p>15 or not contiguous is -- it's still polypropylene,</p> <p>16 and it's going to perform similarly, whether it's</p> <p>17 in contact with the body or not in contact with the</p> <p>18 body, the mesh. So I don't have any concerns about</p> <p>19 fragments or fraying of the mesh.</p> <p>20 Q. (By Mr. Zonies) So have you ever</p> <p>21 removed a mesh where -- a sling where there was</p> <p>22 encapsulation?</p> <p>23 A. Certain slings, yes. If you looked at</p> <p>24 the ObTape product, which would be, really, a Type</p> <p>25 IV mesh similar to particle board, similar to</p>	<p>1 correct?</p> <p>2 A. I have to look at the article.</p> <p>3 (Exhibit 13 was marked for identification.)</p> <p>4 Q. (By Mr. Zonies) I'll mark Exhibit 13,</p> <p>5 your article entitled "Surgical management of lower</p> <p>6 urine mesh perforation after midurethral</p> <p>7 polypropylene mesh sling." Do you have that in</p> <p>8 front of you, Doctor?</p> <p>9 A. I do.</p> <p>10 Q. This is an article you wrote discussing</p> <p>11 your treatment of a number of women who experienced</p> <p>12 severe complications associated with mesh slings,</p> <p>13 correct?</p> <p>14 A. Correct.</p> <p>15 Q. And you wrote in this article on page</p> <p>16 2113, "In the past six years"; do you see that</p> <p>17 paragraph?</p> <p>18 A. I do.</p> <p>19 Q. You wrote, "In the past six years we</p> <p>20 have seen an increase in the overall number of</p> <p>21 transvaginal mesh complication cases referred to</p> <p>22 our center. This alarming increase prompted us to</p> <p>23 review our experience with transvaginal</p> <p>24 polypropylene mesh"; did I read that correctly?</p> <p>25 A. Yes.</p>

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<p>1 Q. And you actually did have an alarming</p> <p>2 increase in the number of mesh complications during</p> <p>3 that period of time, correct?</p> <p>4 A. Not me personally. I think what I</p> <p>5 stated was the cases that were referred to our</p> <p>6 center that I was asked to manage. So because of</p> <p>7 that, I wanted to go back and review my own</p> <p>8 experience. So I did that. If you read the next</p> <p>9 sentence, "Since 2006, midurethral sling placement</p> <p>10 by senior author BJF," which is me, University of</p> <p>11 Colorado Hospital, I have had three lower urinary</p> <p>12 tract perforations out of 600 cases. So that would</p> <p>13 be -- if it was 6 into 600, that would be 1</p> <p>14 percent, so about 25 percent. So I was alarmed by</p> <p>15 what was being referred to me, but after I reviewed</p> <p>16 my own personal data, it was consistent with the</p> <p>17 medical literature and what other people were</p> <p>18 reporting.</p> <p>19 Q. What was your loss to follow-up in those</p> <p>20 603 cases?</p> <p>21 A. I don't believe we lost any to</p> <p>22 follow-up. We reviewed all 600 cases. All these</p> <p>23 patients were, you know, followed for a year. We</p> <p>24 didn't call all 600 patients, but my practice, in</p> <p>25 general, patients will return to me.</p>	<p>1 A. We saw them personally face-to-face, so</p> <p>2 we see them at two weeks, six weeks, three months</p> <p>3 and one year.</p> <p>4 Q. How many of those 603 women did you see</p> <p>5 at two years?</p> <p>6 A. The only patients that we were following</p> <p>7 after the one-year period would be patients that</p> <p>8 had other complaints and other reasons to be</p> <p>9 followed. The rest of them would be returned to</p> <p>10 follow-up with their local provider.</p> <p>11 Q. How many of those 603 women did you see</p> <p>12 at two years?</p> <p>13 A. I don't have that number.</p> <p>14 Q. How many of those 603 women did you see</p> <p>15 at one year?</p> <p>16 A. I would say close to probably 95 percent</p> <p>17 or maybe even greater.</p> <p>18 Q. Where is that data?</p> <p>19 A. Where is that data? That's my own</p> <p>20 personal review and my experience with other</p> <p>21 patients in my practices.</p> <p>22 Q. Of those 603 women, it's your testimony</p> <p>23 here today that you saw 90-some percent of those</p> <p>24 women at one year?</p> <p>25 A. That's an approximation, Mr. Zonies, but</p>
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<p>1 Q. What are your statistics on how many of</p> <p>2 your patients return to you? What are your actual</p> <p>3 statistics?</p> <p>4 A. What I can state from other studies I've</p> <p>5 done on male urethral stricture disease, ureteral</p> <p>6 stricture disease, it's unusual that we would lose</p> <p>7 more than 5 percent of patients to follow-up.</p> <p>8 Q. But do you know what your loss to</p> <p>9 follow-up was in these 600 patients that you're</p> <p>10 talking about in your paper?</p> <p>11 A. So probably less than 5 percent.</p> <p>12 Q. And you base that upon what statistics?</p> <p>13 A. That's based on my review of other</p> <p>14 patient cohorts in my practice and patients</p> <p>15 behaving similarly, so, you know, we spent a lot of</p> <p>16 time in these depositions reviewing studies that</p> <p>17 I've published on various surgical procedures,</p> <p>18 whether that's male urethral stricture disease,</p> <p>19 ureteral stricture disease, mesh complications,</p> <p>20 pubovaginal sling, Prolift, artificial urinary</p> <p>21 sphincter. So that's been my experience in any of</p> <p>22 those studies. And I think that is consistent with</p> <p>23 this group of patients.</p> <p>24 Q. How many of those 603 women did you call</p> <p>25 at one year?</p>	<p>1 that's based on my experience with other cohorts.</p> <p>2 Q. That's not based upon these 603 women,</p> <p>3 correct?</p> <p>4 A. I'd have to go back and look at that,</p> <p>5 but I believe that number is representative.</p> <p>6 Q. Why didn't you say that 5 percent of</p> <p>7 these women were lost to follow-up?</p> <p>8 A. Again, those are estimations. You know,</p> <p>9 I'd have to go back and look at the review of those</p> <p>10 600 patients.</p> <p>11 Q. If it were 5 percent that were lost to</p> <p>12 follow-up, that'd be up to 30 women, and they all</p> <p>13 could have had an erosion, correct?</p> <p>14 MS. SCHMID: Objection; form, calls for</p> <p>15 speculation.</p> <p>16 A. No, that's not correct. I don't see any</p> <p>17 reason to believe why, you know, 30 out of 30</p> <p>18 patients would have a .5 percent complication.</p> <p>19 Q. (By Mr. Zonies) But you don't know?</p> <p>20 MS. SCHMID: Same objection --</p> <p>21 A. I'm confident --</p> <p>22 MS. SCHMID: -- argumentative.</p> <p>23 A. -- in saying that there's no possible</p> <p>24 way that all 30 of those patients had mesh</p> <p>25 perforation.</p>

<p style="text-align: right;">Page 106</p> <p>1 Q. (By Mr. Zonies) You admit in this paper</p> <p>2 that "the original implant may not have knowledge</p> <p>3 of the complex mesh complication that occurred in</p> <p>4 their patient."</p> <p>5 And you agree with that, right? The</p> <p>6 original implant may not know.</p> <p>7 A. It depends on who the original implant</p> <p>8 is. If the original implant is not me, you know,</p> <p>9 I can't speak for how they follow their patients.</p> <p>10 I can just speak for how I follow my patients and</p> <p>11 what the FDA Public Health Notification</p> <p>12 recommended, that you do diligence in following</p> <p>13 your patients, and that's what I've done. I have</p> <p>14 all my cases recorded. I have my own registry. We</p> <p>15 don't go out and contact those patients, but if we</p> <p>16 needed to, we could.</p> <p>17 Q. And in this paper, you say that there</p> <p>18 are complications that the meantime from initial</p> <p>19 placement of the mesh until removal was 15.5 months</p> <p>20 with a range from 1 month to 60 months, or five</p> <p>21 years, correct?</p> <p>22 MS. SCHMID: I'm sorry. Where are you</p> <p>23 reading from, Counsel?</p> <p>24 Q. (By Mr. Zonies) Next paragraph down, it</p> <p>25 says "The mean time." Do you have that, Doctor?</p>	<p style="text-align: right;">Page 108</p> <p>1 A. Correct.</p> <p>2 Q. And this alarming increase that you saw</p> <p>3 at your center of mesh complications, these were</p> <p>4 women where you actually treated them for a mesh</p> <p>5 complication. It was a real complication, correct?</p> <p>6 MS. SCHMID: Object to form; compound.</p> <p>7 A. However you want to describe it.</p> <p>8 There's 21 patients that we treated with lower</p> <p>9 urinary tract mesh perforation of which three of</p> <p>10 them were my patients, 18 were referred to me.</p> <p>11 Q. (By Mr. Zonies) In other words, these</p> <p>12 are -- you wouldn't treat a woman who didn't have a</p> <p>13 true complication from her mesh. You wouldn't</p> <p>14 excise a mesh if a woman didn't actually have a</p> <p>15 complication, correct?</p> <p>16 A. Are you asking me if I would excise an</p> <p>17 asymptomatic patient?</p> <p>18 Q. Yes.</p> <p>19 A. It would be very unlikely. There may be</p> <p>20 a scenario where someone doesn't have any symptoms,</p> <p>21 but if the mesh is in the lower urinary tract, and</p> <p>22 when you look at the table, you know, in the study,</p> <p>23 all of these patients that we excised were, in</p> <p>24 fact, having symptoms. That's reflected in Table 1</p> <p>25 with the common symptoms that patient's presented</p>
<p style="text-align: right;">Page 107</p> <p>1 A. Yeah, I do.</p> <p>2 Q. So isn't it true, Doctor, that -- and</p> <p>3 you've testified before, I believe, that a mesh</p> <p>4 complication can occur at any time from the moment</p> <p>5 it's put in until the end of the woman's life,</p> <p>6 essentially, as long as the mesh is implanted,</p> <p>7 correct?</p> <p>8 A. Yes, there's no finite range.</p> <p>9 Q. And, in fact, you had at least one woman</p> <p>10 in this paper that had a complication after five</p> <p>11 years, correct?</p> <p>12 A. Yeah. And if you look at statistics,</p> <p>13 some prefer to report the median rather than the</p> <p>14 mean. So when you look at the mean, we had someone</p> <p>15 at 60 months. That's going to drag that average up</p> <p>16 to 15 months. But what I've seen most consistently</p> <p>17 is patients presenting before one year. So the</p> <p>18 median may have been a better number to report.</p> <p>19 Median is the most common time where people report,</p> <p>20 so that's most common month, where mean just</p> <p>21 averages the entire range. So if you have one</p> <p>22 outlier, then that could really skew your data.</p> <p>23 Q. But you agree that you've seen mesh</p> <p>24 complications in patients well beyond 15 and a half</p> <p>25 months, correct?</p>	<p style="text-align: right;">Page 109</p> <p>1 with.</p> <p>2 Q. And the most common being pain and</p> <p>3 dyspareunia, correct?</p> <p>4 A. I don't believe we separated the -- so</p> <p>5 pain was the most common, and then, this is in</p> <p>6 Table 1, pain was most common followed by urinary</p> <p>7 incontinence, number 2. Urethral obstruction was</p> <p>8 number 3. Dyspareunia was probably 4 or 5, but</p> <p>9 pain was number one.</p> <p>10 Q. And you write in your paper on the last</p> <p>11 page -- or, I'm sorry, on page 2116 that "A review</p> <p>12 of the contemporary literature on the surgical</p> <p>13 management of LUT mesh perforation did not reveal</p> <p>14 any consensus on how to effectively manage mesh</p> <p>15 complications." That's what you wrote, correct?</p> <p>16 A. And it's in Table 4. And what that is</p> <p>17 reflective of is that there's quite a bit of</p> <p>18 heterogeneity in how these complications were being</p> <p>19 managed across various centers.</p> <p>20 Q. And that's as of 2013 that there was no</p> <p>21 real consensus on how to manage them. In fact,</p> <p>22 that's, in part, why you wrote this paper, correct?</p> <p>23 A. I agree with the first part of the</p> <p>24 statement, that there's no consensus. The reason I</p> <p>25 wrote the paper is just to tell people what we did,</p>

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<p>1 how we managed it.</p> <p>2 Q. And as you sit here today, there still</p> <p>3 is no real consensus on how to manage mesh</p> <p>4 complications, correct?</p> <p>5 MS. SCHMID: Objection; form, vague.</p> <p>6 Go ahead.</p> <p>7 A. I've been involved in two recent panels,</p> <p>8 one at SUFU and one at the AUA with other experts,</p> <p>9 and I believe that what we're doing now does have</p> <p>10 some consensus. That would consist of removing the</p> <p>11 mesh from the urethra, repairing the defect in the</p> <p>12 urethra. Those two procedures are consistent</p> <p>13 across a number of practices. Most experts on the</p> <p>14 panel do not recommend removing the entire mesh.</p> <p>15 Where the variability and technique would be is</p> <p>16 whether or not you need to place a flap or a new</p> <p>17 biological sling at the same time of the mesh</p> <p>18 removal. That's where there's variation in the</p> <p>19 procedures, so under the column "Additional</p> <p>20 Procedures" versus primary procedure.</p> <p>21 Q. Have you personally ever reported a mesh</p> <p>22 complication into the FDA's database?</p> <p>23 A. I don't believe so.</p> <p>24 Q. And how many mesh complications have you</p> <p>25 handled?</p>	<p>1 A. I believe I looked at both of them. I</p> <p>2 think there's one from 2005 and then 2008. I'd</p> <p>3 have to get them in front of me, but I feel both</p> <p>4 IFUs were adequate.</p> <p>5 Q. And your reliance list actually</p> <p>6 identifies those IFUs that you just discussed.</p> <p>7 Are you aware, Doctor, that in 2015, Ethicon</p> <p>8 came out with a new IFU for the TVT-Retropubic?</p> <p>9 MS. SCHMID: Objection; form.</p> <p>10 Go ahead.</p> <p>11 A. I'm unsure.</p> <p>12 Q. (By Mr. Zonies) Nobody ever gave you</p> <p>13 the 2015 IFU to review?</p> <p>14 A. Well, they don't have to give it to me.</p> <p>15 It's included in the package.</p> <p>16 Q. But you haven't used the TVT-R in six</p> <p>17 years, right?</p> <p>18 A. I use the TVT-Exact. That's what I</p> <p>19 mentioned earlier. So when you say the IFUs</p> <p>20 changed, are you referring to TVT-Exact or TVT</p> <p>21 classic?</p> <p>22 Q. Yes, the one we're talking about today,</p> <p>23 the TVT-Retropubic device.</p> <p>24 A. Then no, I haven't seen it.</p> <p>25 //</p>
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<p>1 MS. SCHMID: Objection; form, vague.</p> <p>2 A. Over 200.</p> <p>3 Q. (By Mr. Zonies) So that database is</p> <p>4 short 200?</p> <p>5 MS. SCHMID: Objection; form, argumentative.</p> <p>6 Q. (By Mr. Zonies) Just from your</p> <p>7 practice?</p> <p>8 MS. SCHMID: Sorry about that.</p> <p>9 MR. ZONIES: That's okay.</p> <p>10 MS. SCHMID: Objection; form, argumentative,</p> <p>11 assumes facts not in evidence.</p> <p>12 A. Not necessarily. Since you could see in</p> <p>13 that paper the overwhelming majority of the</p> <p>14 patients are referred to me. The original</p> <p>15 implantor may have reported the complication to the</p> <p>16 databank. So that's making an assumption that I</p> <p>17 didn't report it and the original implantor didn't</p> <p>18 report it or anybody else who maybe have been</p> <p>19 involved in the care.</p> <p>20 Q. (By Mr. Zonies) One of your opinions is</p> <p>21 that the IFU adequately warned physicians of the</p> <p>22 relevant adverse effects, correct?</p> <p>23 A. Correct.</p> <p>24 Q. Which IFU did you look at for that? Did</p> <p>25 you know?</p>	<p>1 (Exhibit 14 was marked for identification.)</p> <p>2 Q. (By Mr. Zonies) I'm going to hand you</p> <p>3 Exhibit 14. And you'll see on that first page on</p> <p>4 the left-hand side at the bottom, it says the date</p> <p>5 is 01/2015. Do you see that date?</p> <p>6 A. Yes.</p> <p>7 Q. And this is the TVT-Retropubic</p> <p>8 instructions for use that if you go on the Web you</p> <p>9 can actually pull these down.</p> <p>10 A. Okay.</p> <p>11 Q. And Doctor, you're now reviewing</p> <p>12 Exhibit 14, the 2015 IFU. Can you confirm that</p> <p>13 you've never seen that IFU before?</p> <p>14 A. I can't confirm either way. I've looked</p> <p>15 at a number of IFUs. I've included them on the USB</p> <p>16 and on my reliance list.</p> <p>17 Q. And if it's not on the USB or your</p> <p>18 reliance list, you haven't reviewed it, correct?</p> <p>19 A. I'm unsure, is what I mentioned.</p> <p>20 Q. Doctor, do you know if you ever used the</p> <p>21 TVT-Retropubic laser-cut device?</p> <p>22 A. Yes, I have.</p> <p>23 Q. How do you know that?</p> <p>24 A. Because when you look at the history of</p> <p>25 mechanical cut versus later cut, the mesh was</p>

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<p>1 mechanical cut up until around 2006. And as I</p> <p>2 mentioned earlier in the deposition, I didn't start</p> <p>3 using the TVT-Exact until around '11, so probably</p> <p>4 from around 2006 to '11 I was using the laser-cut</p> <p>5 mesh.</p> <p>6 Also, as I mentioned earlier in other</p> <p>7 depositions, they would mark the box with an L, and</p> <p>8 they did that for TVT-O as well as retropubic TVT.</p> <p>9 And I believe that's what was offered to my</p> <p>10 hospital. But I'm confident that when the laser</p> <p>11 cut came out, that's when the hospital switched</p> <p>12 over from mechanical to laser.</p> <p>13 Q. So do you believe that if I find the</p> <p>14 hospital's records for its purchasing of</p> <p>15 TVT-Retropubic devices, that in or around 2006, all</p> <p>16 of the TVT-Retropubic devices that the hospital</p> <p>17 purchased will have been laser cut?</p> <p>18 MS. SCHMID: Objection; misstates prior</p> <p>19 testimony.</p> <p>20 Go ahead.</p> <p>21 A. Working at a number of different</p> <p>22 hospitals, so it would probably be particular to</p> <p>23 that hospital, but I believe that's in and around</p> <p>24 the time when we switched to laser cut.</p> <p>25 And also, with the Gynecare TVT-Secur and</p>	<p>1 A. I never really kept track of what the</p> <p>2 sales data was. I paid attention to what I used in</p> <p>3 my practice. Again, around 2008 or '9, I went to</p> <p>4 TVT-Secur, and that was accounting for, like, 80,</p> <p>5 90 percent of the midurethral slings that I</p> <p>6 implanted, so overwhelmingly, the majority of</p> <p>7 meshes that I was implanting after 2008 were</p> <p>8 laser-cut meshes.</p> <p>9 Q. (By Mr. Zonies) But I'm talking</p> <p>10 specifically about the TVT-Retropubic.</p> <p>11 Is it your testimony that you actually have</p> <p>12 a recollection of using a TVT-Retropubic that had</p> <p>13 an L on the end of the number?</p> <p>14 A. I know certainly for TVT-O that we saw</p> <p>15 that. I mentioned I did 75 of the TVT classic, so</p> <p>16 it was never my most common procedure.</p> <p>17 Q. Okay. So you're not sure if you ever</p> <p>18 used a laser cut for the TVT-Retropubic?</p> <p>19 A. I can't say for a hundred percent</p> <p>20 certainty.</p> <p>21 Q. And you likewise can't say for certain</p> <p>22 what other doctors used, whether it was laser cut</p> <p>23 or mechanically cut, correct?</p> <p>24 MS. SCHMID: Objection; form, vague.</p> <p>25 A. Conversations I had with colleagues,</p>
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<p>1 TVT-Abbrevio, TVT-Exact, they're all laser-cut</p> <p>2 products, so certainly I've used laser cut.</p> <p>3 Q. (By Mr. Zonies) Was there a problem</p> <p>4 with the mechanically cut mesh that made you want</p> <p>5 to switch to the laser-cut mesh?</p> <p>6 A. I wouldn't use the word that there was a</p> <p>7 problem. I think that there were some distinct</p> <p>8 advantages offered with laser cut that were</p> <p>9 attractive and seemed intuitive to offer an</p> <p>10 advantage. And if you looked at what some of the</p> <p>11 competitors were doing with their products, they</p> <p>12 were using the laser cut or what's also known as</p> <p>13 the nontanged edges, and so they were looking to</p> <p>14 heat-seal the edges. Boston Scientific did that,</p> <p>15 and some of the other companies did that. And what</p> <p>16 that led to was easier deployment of the mesh, so</p> <p>17 when you placed the mesh, it was less likely -- I</p> <p>18 mean, I should just say it was easier to deploy the</p> <p>19 mesh to get it to lie flat. And it just seemed to</p> <p>20 be easier to handle.</p> <p>21 Q. Were you aware, Doctor, that as late as</p> <p>22 2008, 90 percent of TVT sales were actually</p> <p>23 mechanically cut mesh, not laser cut?</p> <p>24 MS. SCHMID: Objection; form, assuming facts</p> <p>25 not in evidence.</p>	<p>1 both at prof ed events and at meetings, it seemed</p> <p>2 to me that most of the midurethral sling surgeons,</p> <p>3 people were transitioning to laser cut, especially</p> <p>4 friends that I had that were using the Boston</p> <p>5 Scientific product.</p> <p>6 Q. (By Mr. Zonies) You've never seen a</p> <p>7 clinical study assessing TVT-Retropubic</p> <p>8 mechanically cut mesh as compared to TVT-Retropubic</p> <p>9 laser-cut mesh, correct?</p> <p>10 A. A head-to-head?</p> <p>11 Q. Yes.</p> <p>12 A. Not a head-to-head. But what I have</p> <p>13 seen is systematic reviews that include patients</p> <p>14 from the earlier years versus reviews that have</p> <p>15 been compiled from patients that have been</p> <p>16 implanted more recently. When you look at the</p> <p>17 Cochrane review, the Schimpff review, those</p> <p>18 studies, you know, you have a mix of laser cut and</p> <p>19 mechanical cut. When you look at Tommaselli, you</p> <p>20 have TVT-O versus TVT-Secur, a mechanical cut</p> <p>21 versus a laser cut. They're not true head-to-head,</p> <p>22 you know, TVT-R mechanical cut to TVT-R laser cut,</p> <p>23 but I think you can infer from the literature and</p> <p>24 the systematic reviews, you can look at the</p> <p>25 complication rates and the efficacies of the</p>

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<p>1 products.</p> <p>2 Q. Well, and even Tommaselli, using TVT-S</p> <p>3 laser cut, has much lower efficacy than does the</p> <p>4 TVT-Retropubic, correct?</p> <p>5 MS. SCHMID: Objection; form, foundation.</p> <p>6 A. I would disagree with that. Again, it</p> <p>7 comes back to what the outcome measures are, if</p> <p>8 they're looking at just subjective outcome measures</p> <p>9 versus objective outcome measures versus you got to</p> <p>10 be two for two to be considered cured. So if the</p> <p>11 objective measures are more rigorous, you're going</p> <p>12 to have a lower efficacy rate reported.</p> <p>13 Q. (By Mr. Zonies) You have no idea in any</p> <p>14 of the studies in the Cochrane review which of the</p> <p>15 TVT-Retropubics in those studies was laser cut and</p> <p>16 which of the TVT-Retropubics was mechanically cut;</p> <p>17 isn't that true?</p> <p>18 A. What my testimony was that you can look</p> <p>19 at the years that the patients were implanted, and</p> <p>20 you could understand what products were used based</p> <p>21 on the years. Studies that were before 2006, then</p> <p>22 all of those patients were mechanical cut. Then</p> <p>23 there's a transition period. And then in more</p> <p>24 recent studies, then laser cut.</p> <p>25 Q. How do you know that?</p>	<p>1 title on this document, really, unless the title's</p> <p>2 "Things to Consider." Who wrote this document?</p> <p>3 Dan Smith?</p> <p>4 Q. You know Dan Smith, right?</p> <p>5 A. I know the name. I don't know him</p> <p>6 personally.</p> <p>7 Q. So as of the end of 2008, if you look at</p> <p>8 the tenth bullet point down in Ethicon's internal</p> <p>9 document, what does that say?</p> <p>10 MS. SCHMID: What? I'm sorry. What page</p> <p>11 are we on, Counsel?</p> <p>12 Q. (By Mr. Zonies) First page, tenth</p> <p>13 bullet down, it starts with "Most surgeons who use</p> <p>14 TVT"; do you see that?</p> <p>15 A. "Most surgeons who use TVT products do</p> <p>16 not know if what they use contains mechanical-cut</p> <p>17 or laser-cut mesh. Additionally, they don't know</p> <p>18 we have laser-cut TVT and TVT-O products on the</p> <p>19 market. 90/10 versus MC versus LC sales," so this</p> <p>20 is an article, or this is data from 2008. So this</p> <p>21 would be, I guess, one to two years after laser cut</p> <p>22 became available.</p> <p>23 Q. (By Mr. Zonies) Right. So two years</p> <p>24 after laser cut becomes available, Ethicon's own</p> <p>25 internal document says that most doctors don't know</p>
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<p>1 A. Based on what was available to surgeons</p> <p>2 and based on conversation with colleagues and</p> <p>3 people in prof ed. And it really seemed to me that</p> <p>4 when laser cut came out, that was because there was</p> <p>5 interest in that, and there was a need, and that's</p> <p>6 what implanters desired. So, you know, that's what</p> <p>7 Ethicon TVT users desired. So I got to believe</p> <p>8 that they went ahead and used the laser-cut mesh.</p> <p>9 Q. Okay. But you have no actual support</p> <p>10 for that other than you got to believe, correct?</p> <p>11 MS. SCHMID: Objection; form, misstates</p> <p>12 prior testimony.</p> <p>13 A. Again, what I stated earlier was</p> <p>14 conversation with colleagues at meetings, at prof</p> <p>15 ed events, within my hospital. If I talked to my</p> <p>16 partners, I asked them what they're using. And it</p> <p>17 seemed overwhelmingly that people were switching to</p> <p>18 laser cut.</p> <p>19 (Exhibit 15 was marked for identification.)</p> <p>20 Q. (By Mr. Zonies) I'm going to hand you</p> <p>21 Exhibit 15, Dr. Flynn. This is an internal Ethicon</p> <p>22 document. Have you ever seen this document before?</p> <p>23 A. It looks familiar to me. I believe I</p> <p>24 probably have seen some of this. Some of the</p> <p>25 comments in here look familiar, but I don't see a</p>	<p>1 which one they're using, and, in fact, 90 percent</p> <p>2 of them are using mechanically cut. Isn't that</p> <p>3 what it says?</p> <p>4 MS. SCHMID: Objection; foundation.</p> <p>5 A. That's what it says, and that may be</p> <p>6 true, because most doctors don't care, because</p> <p>7 mechanical cut and laser cut are essentially the</p> <p>8 same. So doctors are very comfortable either way,</p> <p>9 whether it was mechanical cut or laser cut.</p> <p>10 Q. (By Mr. Zonies) So we do know, then,</p> <p>11 that of the studies that were done up and through</p> <p>12 patients in 2008, 90 percent of those were</p> <p>13 mechanically cut, right?</p> <p>14 MS. SCHMID: Objection.</p> <p>15 A. It looks like --</p> <p>16 MS. SCHMID: Objection; form, misstates</p> <p>17 prior testimony.</p> <p>18 A. So this is Dan Smith's approximation.</p> <p>19 Dan Smith's an engineer. I don't believe Dan Smith</p> <p>20 works in sales and marketing, so this is an</p> <p>21 engineer's approximation of what the market is.</p> <p>22 Q. (By Mr. Zonies) Based on sales.</p> <p>23 A. I'd be interested to see where he got</p> <p>24 the data.</p> <p>25 Q. Have you ever asked Ethicon for that, or</p>

<p style="text-align: right;">Page 122</p> <p>1 have they ever shared it with you?</p> <p>2 A. What was shared with me at the prof ed</p> <p>3 events and courses were that most surgeons were</p> <p>4 interested in laser cut. That's what was shared.</p> <p>5 Q. Will you ask Ethicon for that sales</p> <p>6 data, Doctor, so you can take a look at it? And</p> <p>7 that might impact your opinion, right?</p> <p>8 MS. SCHMID: Objection; form, argumentative.</p> <p>9 A. I think what my opinion is in the</p> <p>10 report, and what's been consistent, is that</p> <p>11 mechanical cut and laser cut behave similarly. And</p> <p>12 so I don't feel a need to spend a lot of time</p> <p>13 teasing out what the sales data was in 2008,</p> <p>14 because what the literature shows is that the</p> <p>15 products have behaved similarly based on efficacy</p> <p>16 and safety.</p> <p>17 Q. (By Mr. Zonies) But you don't have a</p> <p>18 single piece of literature that you can cite to,</p> <p>19 Doctor, where the only difference between the two</p> <p>20 devices being compared is whether it's mechanically</p> <p>21 cut or laser cut, right? There's not one study</p> <p>22 that does that, is there?</p> <p>23 A. I think if you look at the literature</p> <p>24 based on products that came only as laser cut, for</p> <p>25 instance, TVT-Secur, TVT-Abbrevio, TVT-Exact, and</p>	<p style="text-align: right;">Page 124</p> <p>1 (Recess taken from 4:31 p.m. until</p> <p>2 4:50 p.m.)</p> <p>3 EXAMINATION</p> <p>4 BY MS. SCHMID:</p> <p>5 Q. All right. Good afternoon, Dr. Flynn.</p> <p>6 A. Good afternoon.</p> <p>7 Q. You'll recall you were asked a couple of</p> <p>8 questions about an abstract that you had prepared</p> <p>9 which was marked as Exhibit Number 10. And was</p> <p>10 this abstract ever then published in a</p> <p>11 peer-reviewed journal, Dr. Flynn?</p> <p>12 A. The abstract was published in the</p> <p>13 journal Urology, but there was no manuscript that</p> <p>14 was later published that accompanied this abstract.</p> <p>15 So what the AUA does is all of their abstracts that</p> <p>16 are accepted to their meeting are published in</p> <p>17 their journal, which is a supplement, so you can</p> <p>18 see on the top of this exhibit, it says "Volume</p> <p>19 189, Supplement." So they have a supplement to</p> <p>20 their journal where all these abstracts exist.</p> <p>21 Q. And did this abstract -- and I</p> <p>22 apologize, my question was not clear, so let me</p> <p>23 start again.</p> <p>24 Did this abstract, which was marked as</p> <p>25 Exhibit Number 10, ever then become published?</p>
<p style="text-align: right;">Page 123</p> <p>1 you compare those to the TVT studies that were</p> <p>2 published before 2006, you've just created a</p> <p>3 comparison. And at least with respect to safety,</p> <p>4 meaning vaginal exposures, lower urinary tract</p> <p>5 perforations, dyspareunia and pain, they performed</p> <p>6 very similarly. If you look at dyspareunia, for</p> <p>7 instance, the incidence of dyspareunia after</p> <p>8 midurethral sling is .5 percent, and that number</p> <p>9 resonates whether that is a laser-cut mesh or a</p> <p>10 mechanical-cut mesh.</p> <p>11 MR. ZONIES: Move to strike as</p> <p>12 nonresponsive.</p> <p>13 Q. (By Mr. Zonies) Doctor, can you</p> <p>14 identify a single study where the only difference</p> <p>15 between the two devices being compared is whether</p> <p>16 it's laser cut or mechanically cut? One study.</p> <p>17 A. One study that has both cohorts head to</p> <p>18 head in the same paper? I'm not aware of that</p> <p>19 study.</p> <p>20 MR. ZONIES: I'll reserve the remaining time</p> <p>21 for recross.</p> <p>22 MS. SCHMID: What time is left?</p> <p>23 MS. COVINGTON: I have 17 minutes.</p> <p>24 MS. SCHMID: Let's go ahead and take a</p> <p>25 break.</p>	<p style="text-align: right;">Page 125</p> <p>1 A. No, it did not.</p> <p>2 Q. And why not?</p> <p>3 A. Well, because there was no statistical</p> <p>4 significance with these conclusions. So when we</p> <p>5 prepare a paper in an abstract, sometimes we'll</p> <p>6 publish something just to report some results, and</p> <p>7 other times, like you can see, you know, in an</p> <p>8 abstract right next to it on the same page where</p> <p>9 there's P values and standard deviations and more</p> <p>10 rigorous statistical analysis, and we didn't have</p> <p>11 that in our paper. Our paper wasn't properly</p> <p>12 powered. It was only 50 mesh revision surgery</p> <p>13 cases, and so because of that, it wouldn't have met</p> <p>14 the standards of a peer-reviewed journal. So it</p> <p>15 wouldn't have been publishable. So generally, we</p> <p>16 don't attempt to publish things that we don't think</p> <p>17 are going to get published.</p> <p>18 Q. Can you, Dr. Flynn, pull up in front of</p> <p>19 you Exhibit Number 12, please? And that was the</p> <p>20 Pam Moalli article.</p> <p>21 A. Yes. So this is Exhibit 13, and here's</p> <p>22 Exhibit 12.</p> <p>23 Q. Okay. So just on Exhibit Number 12, my</p> <p>24 next questions.</p> <p>25 A. Yes.</p>

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<p>1 Q. Okay. You recall you were asked a</p> <p>2 series of questions about the Moalli paper,</p> <p>3 correct?</p> <p>4 A. Correct.</p> <p>5 Q. And did the authors identify what they</p> <p>6 considered in this paper to be the gold standard</p> <p>7 for midurethral slings?</p> <p>8 MR. ZONIES: Object to the form.</p> <p>9 A. They did.</p> <p>10 Q. (By Ms. Schmid) And what product did</p> <p>11 they identify as the gold standard for midurethral</p> <p>12 slings?</p> <p>13 MR. ZONIES: Same objection.</p> <p>14 A. Well, if you go to page 656, the second</p> <p>15 paragraph in the right column, it says, "For</p> <p>16 simplicity of data presentation, we used the</p> <p>17 Gynecare TVT as the gold standard and defined the</p> <p>18 behavior of 5 newer versions of the midurethral</p> <p>19 sling relative to it."</p> <p>20 Q. (By Ms. Schmid) Okay. So in the Moalli</p> <p>21 paper, they refer to the Gynecare TVT midurethral</p> <p>22 sling as the gold standard, correct?</p> <p>23 MR. ZONIES: Object to the form.</p> <p>24 A. They did. And then if you look at the</p> <p>25 tables and figures throughout the paper and all of</p>	<p>1 midurethral slings since 2004. So I've used both</p> <p>2 mechanical-cut and laser-cut mesh. That's what was</p> <p>3 taught to me as a resident and fellow and what I</p> <p>4 incorporated in my practice. So from my own</p> <p>5 clinical experience from 2004 to 2006, maybe even</p> <p>6 later, 2008, when using mechanical-cut mesh, I got</p> <p>7 excellent results. I had over 90 percent success</p> <p>8 with a complication rate of somewhere around 2 to 2</p> <p>9 and a half percent.</p> <p>10 Later in my practice I switched over to</p> <p>11 laser-cut mesh both in the TVT-Obturator form and</p> <p>12 TVT-Exact, TVT-Abbrevio, TVT-Secur. I mentioned I</p> <p>13 used the Boston Scientific Advantage Fit, and all</p> <p>14 of these products performed quite similarly in</p> <p>15 terms of having efficacy and safety that was very</p> <p>16 similar to the mechanical-cut.</p> <p>17 So after doing 800 cases, I'm very</p> <p>18 comfortable commenting on both of the meshes. I</p> <p>19 found the way they resulted in my patients and the</p> <p>20 outcomes I got were quite similar.</p> <p>21 My review of the medical literature,</p> <p>22 including systematic reviews, meta-analyses, more</p> <p>23 recent publications, for instance, like the</p> <p>24 Tommaselli paper or papers that are more specific</p> <p>25 reflecting later products on the results again, are</p>
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<p>1 the P values and comparisons they make,</p> <p>2 everything's compared to the Gynecare TVT device.</p> <p>3 Q. (By Ms. Schmid) All right. And</p> <p>4 Dr. Flynn, you were asked a series of questions</p> <p>5 this afternoon about the differences between</p> <p>6 mechanically cut mesh and laser-cut mesh; do you</p> <p>7 recall those questions?</p> <p>8 A. I do.</p> <p>9 Q. And specifically you were asked whether</p> <p>10 there was ever a head-to-head comparison in a</p> <p>11 single paper of the performance from a safety and</p> <p>12 efficacy standpoint of mechanically cut mesh versus</p> <p>13 laser-cut mesh. Do you recall those questions?</p> <p>14 A. I do.</p> <p>15 Q. Okay. And there is no such paper that</p> <p>16 makes that head-to-head comparison; is that</p> <p>17 correct?</p> <p>18 A. That's correct.</p> <p>19 Q. So how do you, then, Dr. Flynn, have</p> <p>20 confidence in your opinion that the laser-cut and</p> <p>21 mechanical-cut mesh are both safe and effective</p> <p>22 meshes?</p> <p>23 MR. ZONIES: Object to the form.</p> <p>24 A. Well, I've implanted over 800</p> <p>25 midurethral slings. And I've been using</p>	<p>1 similar to what was reported in some of Ulmsteen's</p> <p>2 original papers. Conversations with colleagues at</p> <p>3 my hospital, in my group, going to meetings, prof</p> <p>4 ed events, those are the similar responses and</p> <p>5 feedbacks that I've received.</p> <p>6 So there's been over three million TVT</p> <p>7 products implanted in patients over a 20-year</p> <p>8 period, and many of those were mechanical cut, many</p> <p>9 of them were laser cut. But, you know, there's no</p> <p>10 data to support one product works better than the</p> <p>11 other, or one product is inferior than the other.</p> <p>12 So I got to believe there would be a paper</p> <p>13 somewhere that would show some really unusual</p> <p>14 results with laser cut or with mechanical cut if</p> <p>15 there was some outlier. And I'm not aware of such</p> <p>16 a paper.</p> <p>17 Q. (By Ms. Schmid) You have been asked</p> <p>18 today in your deposition to provide your expert</p> <p>19 opinions on the TVT classic, correct?</p> <p>20 A. Correct.</p> <p>21 Q. And your opinions are all set forth in</p> <p>22 your expert report which was marked earlier today</p> <p>23 as Exhibit Number 4, correct?</p> <p>24 A. Correct.</p> <p>25 Q. And can you tell the jury what you have</p>

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<p>1 relied upon as the bases for your expert opinions 2 regarding the TVT classic or the TVT-Retropubic 3 mesh? 4 MR. ZONIES: Object to the form. 5 A. So what I outlined in my report and on 6 my reliance list is over 100 different publications 7 that pertain to mesh and stress urinary 8 incontinence. My report starts out with my 9 background and qualifications. It mentions, you 10 know, my titles as an expert in female pelvic 11 medicine and reconstructive surgery. I'm Board 12 certified in that area. And I'm an associate 13 professor at University of Colorado. 14 As the report goes through, I overview the 15 beginnings of the TVT product as developed by 16 Dr. Ulmsteen. I think those are the important 17 papers that help you understand the development of 18 the product. 19 If you look at TVT, it was really a product 20 that was first done by a very esteemed, skilled 21 professor that then brought the product to six 22 ordinary Scandinavian units, and they essentially 23 got the same results in terms of efficacy and 24 safety. So those earlier papers I think were very 25 supportive of the device. The product then came to</p>	<p>1 sling. I participate in scientific meetings. I go 2 to more than five or six meetings a year where I 3 commonly hear about incontinence procedures. I 4 listen to experts. I participate in panel 5 discussions. You can see that on my CV. My CV is 6 more than 50 pages long, and that itemizes all the 7 abstracts, all the publications, all the 8 presentations, textbook chapters I've written, 9 videos and other forms of multimedia. 10 So it really comes down to my review of the 11 literature, my personal experience with the device, 12 and just feeling very well-connected with 13 colleagues and experts, both at the AUA and at 14 SUFU, at the AUGS. Reviewing those professional 15 statements are very powerful. We review those 16 commonly in our journal clubs, and those statements 17 are ones that I use in my practice when talking 18 about these products with patients. 19 And, you know, just to quote the American 20 Urologic Association the full-length retropubic or 21 transobturator midurethral sling Type I 22 polypropylene mesh is the gold standard. And the 23 TVT classic meets all those criteria. It's a 24 Type I mesh. It has large pores. It has the 25 optimal amount of elasticity. It's the right</p>
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<p>1 the United States and performed equally well. 2 Later, you know, five, ten, fifteen years 3 later, we now have over 100 RCTs. We have over 4 1,000 publications. We have systematic reviews. 5 We have meta-analyses. So we have Level I evidence 6 supporting the use of the TVT product. So those 7 are the studies that I relied on in preparing my 8 report. 9 Q. Is there anything else that you have 10 relied on as a basis for your opinions other than 11 what you just described? 12 MR. ZONIES: Object to the form. 13 A. Well, certainly I rely on my own 14 clinical experience. I'm a high-volume surgeon. I 15 do four to five hundred operation as year. I've 16 been doing that for the last 15 years. 85 percent 17 of my job is clinical, meaning taking care of 18 patients, talking to women with incontinence and 19 prolapse, and performing surgery. So I feel that 20 I'm, you know, well-positioned to make statements 21 in regards to these products because I've been 22 using midurethral slings for almost 15 years now in 23 my practice. 24 I've been teaching residents and fellows and 25 medical students about the value of the midurethral</p>	<p>1 width. It's a full-length sling. So it has all 2 those characteristics that I look for and that 3 others have reported on when reporting on 4 midurethral slings. It meets the criteria that the 5 professional societies mention in terms of, you 6 know, products that we -- that they endorse and 7 that they support. 8 Q. (By Ms. Schmid) Did you bring with you 9 your resume to today's deposition? 10 A. I did. 11 Q. And did you bring with you your reliance 12 list to today's deposition? 13 A. I did. And the resume or CV has been 14 marked as an exhibit. And I believe that was 15 Exhibit 1 or 2. 16 Q. All right. 17 A. And then my reliance list is just after 18 my report in this first binder. And that was 19 printed on March 2nd. And I don't have the exact 20 number of pages, but it's probably at least 30 to 21 40 pages of the reliance list. 22 MS. SCHMID: I have no further questions for 23 you. Thank you, Dr. Flynn. 24 THE WITNESS: Thank you. 25 MR. ZONIES: Just a few follow-ups,</p>

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<p>1 Dr. Flynn.</p> <p>2</p> <p>3 EXAMINATION</p> <p>4 BY MR. ZONIES:</p> <p>5 Q. The abstract that you were discussing,</p> <p>6 your abstract, was it -- did you ever submit it to</p> <p>7 any journals for publication?</p> <p>8 A. Well, just to be clear, again, the</p> <p>9 abstract was submitted to the American Urologic</p> <p>10 Association. It was accepted at that meeting, and</p> <p>11 they published those abstracts, so however you'd</p> <p>12 want to characterize that. Did I ever submit a</p> <p>13 full manuscript to any journal that accompanied</p> <p>14 that abstract? The answer would be no.</p> <p>15 Q. That paper was never rejected for</p> <p>16 publication, or --</p> <p>17 A. The paper was never written.</p> <p>18 Q. You said that that paper was criticized</p> <p>19 by some. Who criticized the paper, the abstract?</p> <p>20 A. Anthony Schaeffer, who is a urologist at</p> <p>21 Northwestern University. He was probably the most</p> <p>22 critical of the scientific method. Dr. Schaeffer</p> <p>23 has expertise in infectious-disease issues in</p> <p>24 urology. There was two moderators, I can't</p> <p>25 remember who the moderators were that day, but they</p>	<p>1 Q. You were asked questions about</p> <p>2 mechanically cut versus laser cut. Do you recall</p> <p>3 those questions?</p> <p>4 A. I do.</p> <p>5 Q. Of the 75 TVT-Retropubic devices that</p> <p>6 you've implanted, how many were laser cut?</p> <p>7 A. Doing a calculation, rough calculation</p> <p>8 in my mind, probably close to half and half. I</p> <p>9 used the mechanical-cut product -- I used the</p> <p>10 retropubic product from 2004 to '11, so that's a</p> <p>11 seven-year period, so let's say there's ten a year.</p> <p>12 And then in 2006, when laser cut, we switched over</p> <p>13 maybe 2007, so that was probably 20 to 30</p> <p>14 mechanical cut and that many laser cut with respect</p> <p>15 to the retropubic product.</p> <p>16 Q. But that's just based upon which years</p> <p>17 you used the devices, correct?</p> <p>18 A. Yeah, and similar with TVT-O, that was</p> <p>19 the product I was using more commonly earlier in my</p> <p>20 practice from 2004 to 2008 or '9, so I had used</p> <p>21 quite a bit of mechanical-cut mesh, but it was</p> <p>22 mostly in the TVT-O product.</p> <p>23 Q. And do you have a case -- does your case</p> <p>24 log identify whether or not it was laser cut or</p> <p>25 mechanically cut mesh that you implanted?</p>
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<p>1 both had some concerns about the methods, but I</p> <p>2 would have to go back and look at who moderated</p> <p>3 that session. I don't remember the names, but</p> <p>4 usually there's only opportunity for a few people</p> <p>5 to make comments, and if one person makes a lot of</p> <p>6 comments, then that prevents other people from</p> <p>7 having the time to make comments, so Dr. Schaeffer</p> <p>8 made the majority of the comments.</p> <p>9 Q. And, in particular, the criticisms were</p> <p>10 that the methods were not reliable methods,</p> <p>11 correct?</p> <p>12 A. He was concerned that we didn't do</p> <p>13 vaginal swabs at the same time to try to correlate</p> <p>14 what the vaginal swabs showed in relation to what</p> <p>15 the mesh culture showed. And Patrick Culligan and</p> <p>16 others have done similar papers, so he asked me to</p> <p>17 consider the shortcomings of those papers if we</p> <p>18 were going to pursue this paper further. So he had</p> <p>19 proposed a number of ideas to me that would have</p> <p>20 allowed me to maybe answer some of the questions</p> <p>21 that he felt were not answered by the abstract.</p> <p>22 Q. And are you doing vaginal swabs now as</p> <p>23 you're testing explants?</p> <p>24 A. No, that was just a recommendation</p> <p>25 specific to this paper.</p>	<p>1 A. It does not.</p> <p>2 Q. So you have no way to know for</p> <p>3 certain -- isn't it true, Doctor, that all of those</p> <p>4 TVT-Retropubics could have been mechanically cut?</p> <p>5 MS. SCHMID: Objection; form.</p> <p>6 Q. (By Mr. Zonies) Isn't that possible?</p> <p>7 MS. SCHMID: Misstates prior testimony.</p> <p>8 A. I don't think it's possible, because</p> <p>9 from what I recall, and my conversations with</p> <p>10 Ethicon and the local rep, I believe they had</p> <p>11 switched over the stock at the hospitals I operated</p> <p>12 at to laser cut.</p> <p>13 MR. ZONIES: Thank you, Doctor. I have</p> <p>14 nothing further. I appreciate your time.</p> <p>15 THE WITNESS: Thank you.</p> <p>16 MS. SCHMID: We'll read and sign. Thank</p> <p>17 you.</p> <p>18 MR. ZONIES: We'll take a rough.</p> <p>19 (Whereupon, the deposition was concluded at</p> <p>20 5:08 p.m. on April 19, 2016.)</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>

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 ERRATA

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1
2 ACKNOWLEDGMENT OF DEPONENT

4 I, _____, do
5 hereby certify that I have read the
6 foregoing pages, and that the same is
7 a correct transcription of the answers
8 given by me to the questions therein
9 propounded, except for the corrections or
10 changes in form or substance, if any,
11 noted in the attached Errata Sheet.

15 **BRIAN J. FLYNN, M.D.** **DATE**

18 Subscribed and sworn
to before me this

19 _____ day of _____, 20____.

20 My commission expires: _____

22 Notary Public